StereoReview® PRESENTS

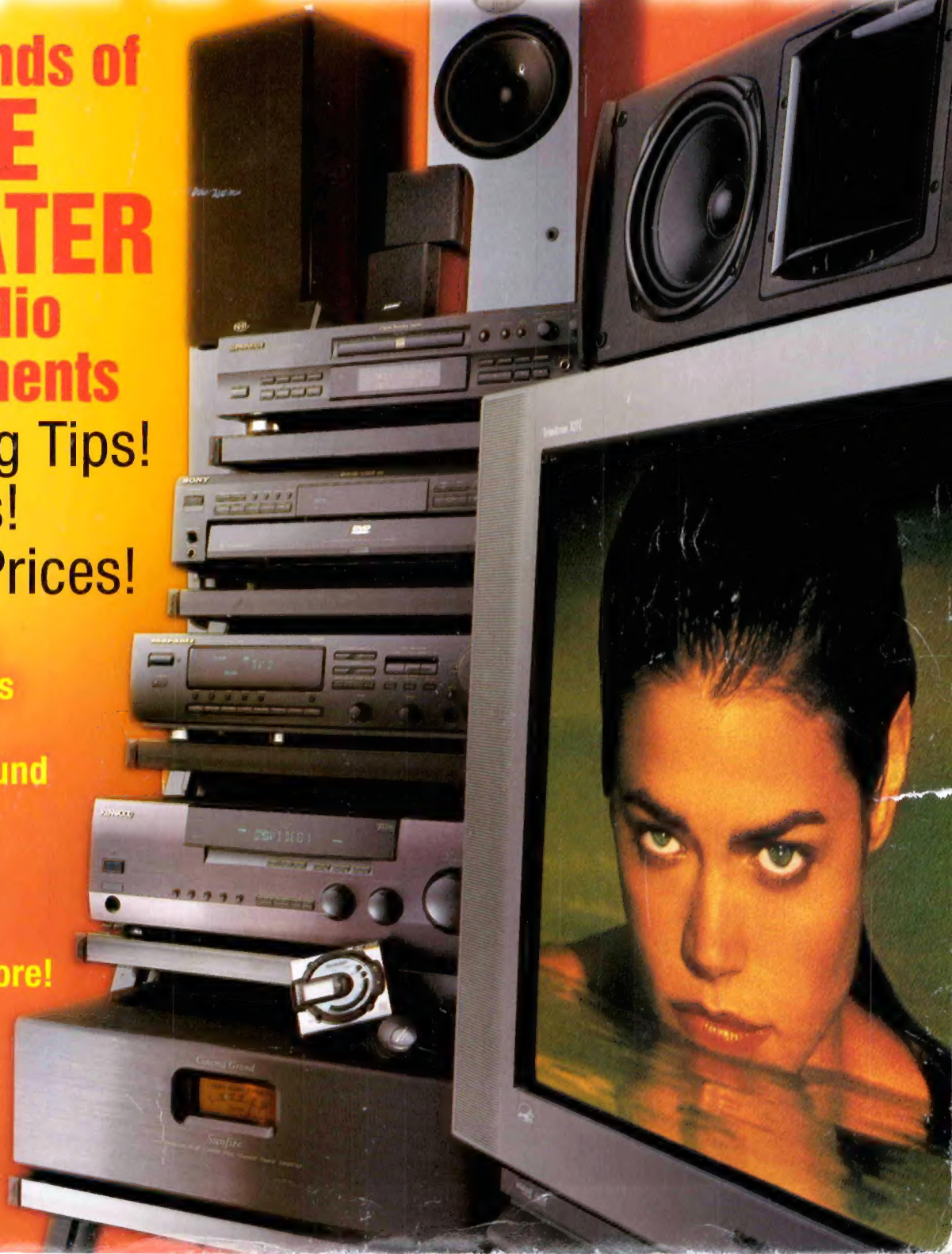
STEREO®

Buyer's Guide 1999

Thousands of HOME THEATER And Audio Components

Shopping Tips!
Features!
Specs! Prices!

DVD Players
A/V Receivers
Speakers
Surround Sound Processors
Hi-Fi VCRs
CD Players
Amplifiers
And Much More!



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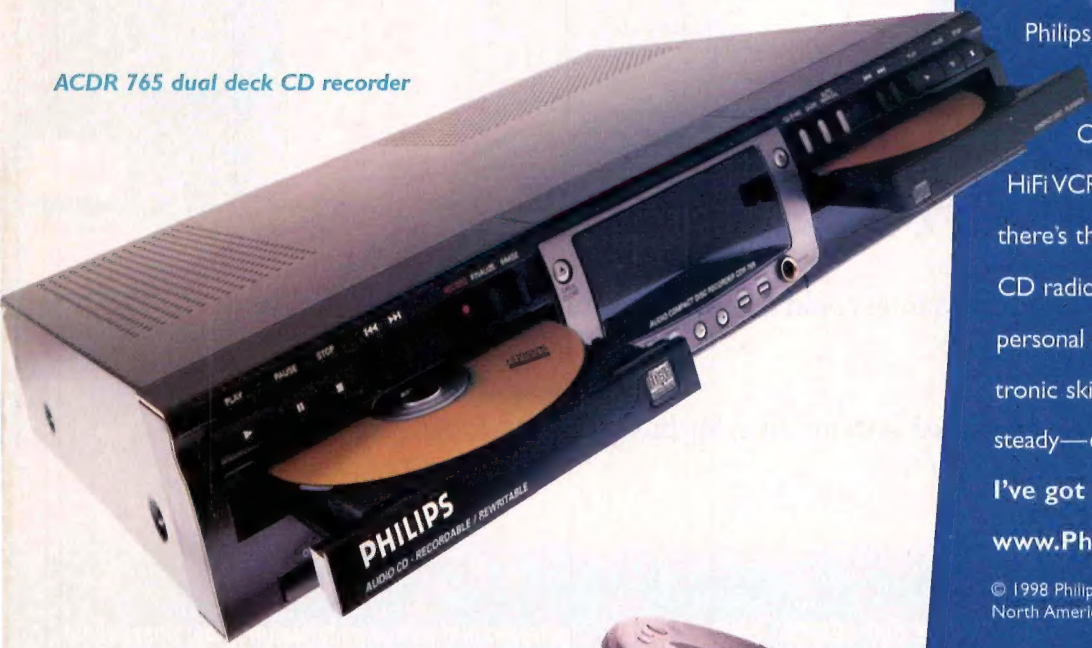
CD radio cassette recorder

director of my own life, to do the soundtrack too.

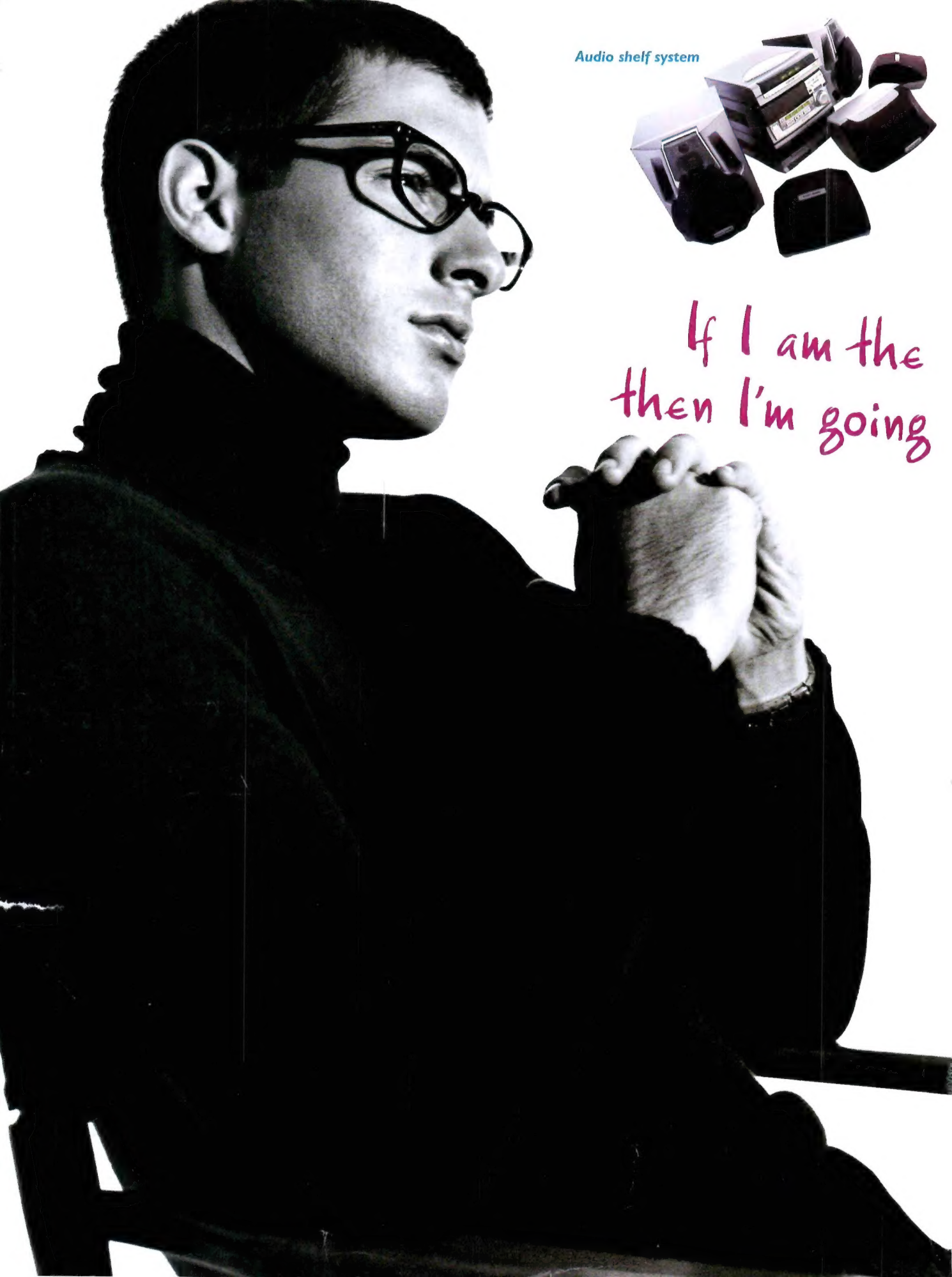
ACDR 765 dual deck CD recorder



Personal CD player

PHILIPS

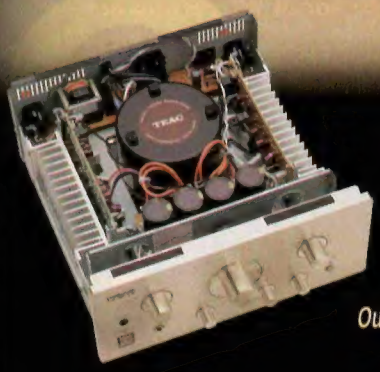
Let's make things better.


Audio shelf system
If I am the
then I'm going

Why Should Your Ears Have All the Fun?

"Many U.S. high end companies could learn a lot about style from a system like this."
Home Theater Buyer's Guide - U.S.A

"This is a very sophisticated system, superbly built...We thoroughly recommend it!"
What Hi Fi? - United Kingdom



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STEREO® Buyer's Guide 1999

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ON THE COVER Clockwise from top left: NHT Super Two tower speakers, Bose Acoustimass 15 satellite speaker "cubes," Klipsch KSF-C5 center speaker, Sony KV-32XBR200 32-inch TV, Sunfire Cinema Grand power amplifier, Sharp MD-MS702 portable MiniDisc recorder (with headphones), Kenwood VR-209 A/V receiver, Marantz AV-550 Dolby Digital preamp/tuner, Sony DVP-C600D DVD changer, and Pioneer PDR-555RW CD recorder. The equipment rack is a Bell'Oggetti AR-880. Photo by Dave Slagle. Image from *Wild Things* courtesy Columbia TriStar.

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How to Use This Guide

Welcome to *Stereo Review*'s 1999 edition of the world's most comprehensive guide to audio and home-theater products. Thinking about getting one of the hot new DVD players? Turn the page for the basics of what you need to know, and then browse the listings of the more than 50 players on the market under 31 brand names.

We give the same treatment to all kinds of audio and home-theater products — nearly 6,000 in all — from CD players and tuners to audio/video receivers and hi-fi VCRs. We also look at preamplifiers, power amplifiers, headphones ... even phono equipment. And speakers! We've devoted more than 80 pages to speakers alone.

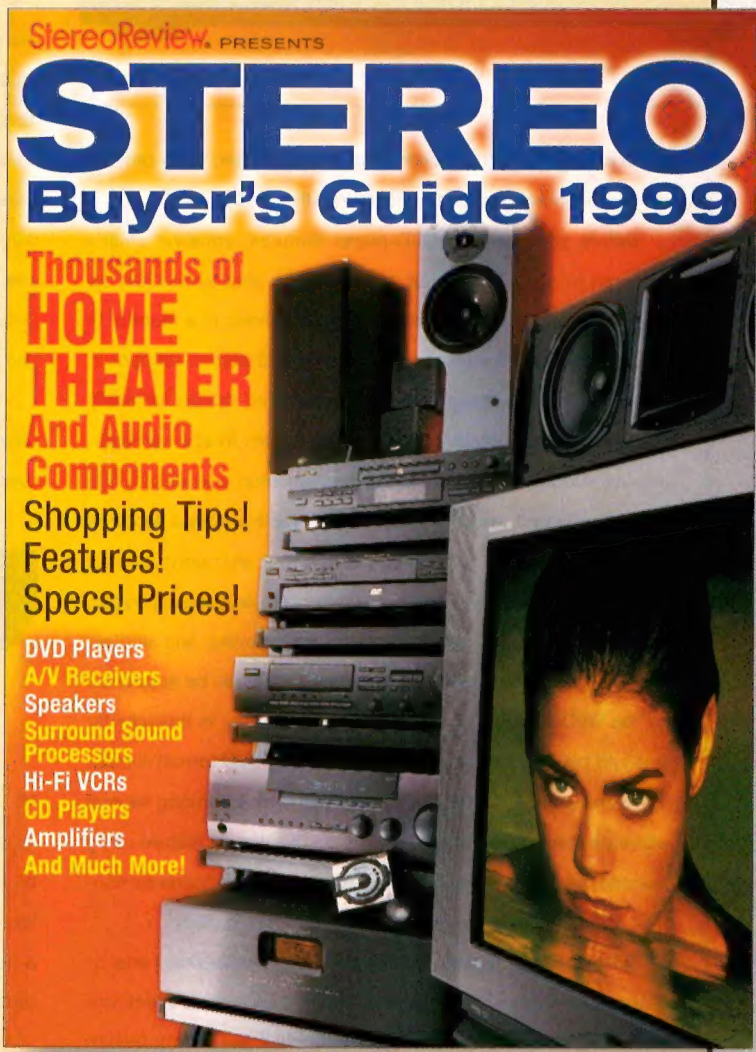
No system is complete without a few add-ons. Rather than a simple list of products, we present an overview of the kinds of accessories available and how they can make your system better. Turn to page 106.

It would be impossible for even the editors of *Stereo Review* to test all of this equipment or to come up with the specifications and descriptions in our listings, which is why we ask the manufacturers to supply this information for their products. If key specifications or features are missing, it is because the manufacturer did not provide them.

We've also listed the addresses, phone numbers, and Web addresses of the manufacturers so that you can get additional information direct from the source. The Directory of Manufacturers begins on page 233.

As you read our guide, you are likely to encounter terms or abbreviations that are unfamiliar even after reading the short introduction to each section. For a crash course on audio/video terminology, see the glossary beginning on page 243.

Now turn the page and let the search begin!



DVD Players

If you want a terrific picture and great sound, DVD is the way to go

DVD players are among the newest home-theater components — this is only the second year they've been listed in the *Stereo Buyer's Guide* — but they've quickly won the hearts of videophiles thanks to the benefits of the fully digital medium. What benefits? First, DVD delivers better video quality than any previous format. Second, it offers 5.1-channel digital surround sound that can make your home theater as exciting as the best movie theaters.

SONY DVP-S7700

DVDs are reasonably inexpensive and, even better, many players are competitively priced, starting at less than $400.

Before you compare DVD-player features, consider what's common to all of them. First, they can also play audio CDs, so you don't need two machines. They deliver video to a monitor in either the standard pan-and-scan format (4:3 aspect ratio) or in the widescreen (anamorphic) format that's an option for many DVD movies. DVD players have virtually perfect freeze-frame capability. All provide on-screen menus for setup and display the cursor-navigated, remote-controlled interactive menus featured on most discs. DVD players can also select alternative soundtracks if they're on the disc — usually foreign-language dialogue.

Subtitles are also carried on many DVD movies, and all players will let you view them. (Up to 32 languages can be supported by the DVD format, but the number on any disc is typically far less.) All players are also compatible with the DVD format's multiple-camera-angle option, which lets you choose among several alternate views of a scene if they're on the disc (a feature rarely used so far). Virtually all DVD players incorporate a "parental control" option that lets you password-protect movie discs.

While all DVD players supply both composite-video and S-video signals, some also include a higher-quality component-video (or RGB) output, which is important only if you own or plan to buy a TV or video projector that has a compatible input.

All DVD players can deliver two-channel analog audio to their stereo (RCA-jack) outputs from both DVDs and CDs, so even if you don't have a surround-sound audio setup, you can still enjoy movie soundtracks in high-quality stereo. And if you have a Dolby Pro Logic system, you can expect excellent Pro Logic surround sound. But if you want to experience the superb quality of the 5.1-channel Dolby Digital (DD) soundtracks on most (not all) DVDs, you'll need a DD surround-sound processor, which decodes the digital bitstream and supplies the appropriate signals for the left, center, and right front speakers, the left and right surround speakers, and a subwoofer for the bass-dedicated ".1" channel. If a player doesn't have a built-in decoder (most don't), you'd have to feed its digital output to an A/V receiver with DD processing or to a stand-alone DD decoder. DVD players can have two types of digital connectors, optical or coaxial (which uses an RCA-type jack), so make sure the processor you plan on using has a compatible input. Although Dolby Digital is the standard sound format for DVD, discs containing a different 5.1-channel digital audio format called DTS (in addition to a standard Dolby Surround soundtrack) may become available in the future, and these will require yet another kind of decoder.

The current DVD-Video standard includes an option for two-channel digital audio recorded in a high-resolution format that uses a 96-kHz sampling rate (roughly twice that of CD) and a 24-bit "word length," which theoretically offers a substantial dynamic-range advantage over a standard CD's 16-bit encoding. Many, but not all, DVD players can play audio discs recorded in this "enhanced" stereo format. Finally, some players are compatible with a new pay-per-view variant of DVD called Divx. If pay-per-view discs appeal to you, be sure to look for that feature.

RCA RC5510P

Good movies, great sound, excellent video performance — what are you waiting for?

— Brian Fenton

DVD

First we made it possible. Then we made it portable.

Panasonic brings you the PalmTheater™ portable DVD player. It's the world's first portable DVD theater. Video Magazine recently said, "Panasonic's DVD-L10 is without doubt the must-have cool gadget of 1998."

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Dolby Digital is a registered trademark of Dolby Laboratories, Licensing Corp.
dts is a registered trademark of Digital Theater Systems, Inc.
Picture simulated. *Not all features on all decks.
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DVD Players

All DVD players listed include a remote control and support base-level DVD features including variable bit-rate conversion and up to 8 soundtrack languages and 32 subtitle languages. All have composite-video outputs. All can also play audio CDs.

AIWA

XD-DV500 DVD Player
Dolby Digital decoder. Time search. Silver. 14⅛ x 3¾ x 11⅞ in; 10 lb $850

CALIFORNIA AUDIO LABS

CL-25 DVD Player
20-bit D/A converter. Plays DVDs with 96-kHz/24-bit audio, HDCDs, and video CDs. Component-video and RGB-video outputs; RS-232 digital interface. 17 x 5 x 15¼ in; 20 lb $2,995
CL-20. As above without component- or RGB-video output stage. 17 x 5 x 15¼ in; 20 lb $2,495

CAMELOT TECHNOLOGY

The Round Table DVD Player
24-bit D/A converter. Plays DVDs with 96-kHz/24-bit audio, laserdiscs, and CD-Rs. DTS-compatible. Component-video output; 1 AES/EBU and 2 I²S digital inputs and outputs; 1 audio output $2,995

CONRAD-JOHNSON

Premier 17 DP DVD Player
Plays DVDs with 96-kHz/24-bit audio. Champagne-gold aluminum front panel. 3-yr warranty $6,995

DENON

DVD-5000 DVD Player
MDCD decoder. Dual optical pickups. Plays DVDs with 96-kHz/24-bit audio. DTS-compatible; virtual surround sound $2,500

DVD-3000 DVD Player
24-bit D/A converter. Plays DVDs with 96-kHz/24-bit audio, video CDs. Dolby Digital decoder; DTS-compatible; virtual surround sound. 2 component-video outputs; 1 audio output; coaxial and optical digital outputs. Auto power/standby. Black $899

FAROUDJA

DV1000 DVD Player
10-bit video and 20-bit audio D/A converters. 50-dB jitter reduction; enhanced error correction; DTS ready. XLR, ST-glass, and coaxial and optical digital outputs; 2 analog audio outputs; component-video and RGB-video outputs $5,495

HARMAN KARDON

Signature 3.0 DVD Player
10-bit video D/A converter. Plays DVDs with 96-kHz/24-bit audio. DTS-compatible. Component-video output; optical and coaxial digital audio output; RS-232 digital interface. Customer-profile memory function. Black anodized aluminum $1,799

JVC

XV-D2000BK DVD Player
Plays DVDs with 96-kHz/20-bit audio, video CDs. Coaxial and optical digital outputs; headphone jack with volume control. Universal remote control. Black $1,000

KENWOOD

DV-203 DVD Player
10-bit video and 24-bit audio D/A converter. 8X-oversampling digital filter; 3rd-order noise shaping; twin-focus laser pickup; video noise reduction; DTS-compatible. 1 component-video and 2 composite-video outputs; coaxial and optical digital outputs; system remote control output. CD text; 15-character dot-matrix status display; 5-scene memory; jog control on unit .....$NA

MARANTZ

DVD-930 DVD Player
10-bit D/A converter. Plays DVDs with 96-kHz/24-bit audio, video CDs; DTS-compatible. Enhanced black-level mode. Component-video output; 5 audio outputs; headphone output. Preprogrammed remote control. Black. 17 x 2⅞ x 11 in $849

DVD-930 DVD Player
10-bit video and 18-bit audio D/A converter. Enhanced black-level mode. 4 audio outputs; headphone output. 3 play speeds; preprogrammed remote control. Black. 17¼ x 3½ x 11¾ in $699

MERIDIAN

Model 586.2 DVD Player
Five 10-bit video and two 20-bit audio D/A converters. Plays video CDs. Dual optical pickups; video noise reduction; detail enhancement; enhanced black-level mode. 1 component-video output, 1 S-video output, and 1 composite-video output; 1 coaxial digital output; headphone output; RS-232 port. Universal remote control with skip and scan functions. Includes Meridian system cable. Black finish. 3½ x 12⅝ x 13¼ in; 25 lb $3,995

MITSUBISHI

DD-2000 DVD Player
10-bit D/A converter. Component-video output; 2 analog audio outputs. Video black-level control. Black finish. 17 x 3⅛ x 12⅛ in; 8 lb $799

MUSE

Model Eight DVD Player
Plays DVDs with 96-kHz/24-bit audio and CD-R discs. Master/slave interface capability. Component-video output. Silver or black front panel. 3-yr warranty. 17½ x 3½ x 11 in; 20 lb $3,500

ONKYO

DV-S501 DVD Player
10-bit video D/A converter. Plays DVDs with 96-kHz/20-bit audio. 4X picture magnification; brushed-aluminum front panel. Optical digital output; headphone jack. Video black-level control; jog/shuttle control; display dimmer. Black. 17⅛ x 4¾ x 12 in $800

PANASONIC

DVD-L10 Portable DVD Player
10-bit video and 24-bit audio D/A converter. Plays DVDs with 96-kHz/24-bit audio, video CDs. 5.8-in LCD monitor; 2-hr play on supplied Ni-MH battery; virtual surround sound; built-in speakers. A/V minijack; optical audio minijack; headphone jack with volume control. 5-speed smooth motion for scan and slow; auto power-off. Includes AC adapter and charger. 2 lb $1,400

DVD-K510 DVD Player
10-bit video and 24-bit audio D/A converter. Plays DVDs with 96-kHz/24-bit audio; DTS-compatible. Dolby Digital karaoke; virtual surround sound; dual-focus optical pickup; built-in Dolby Digital decoder. Component-video output; coaxial and optical digital output; dual A/V output jacks; headphone jack with volume control; two mic inputs with separate volume controls. 5-speed smooth motion for scan and slow, forward and reverse; scrolling text; auto power-off. 8 lb $850

DVD-A310 DVD Player
10-bit video and 24-bit audio D/A converter. Plays DVDs with 96-kHz/24-bit audio, video CDs. DTS-compatible; virtual surround sound; dual-focus optical pickup; precise focus and rapid access. Component-video outputs; jack with volume control. 5-speed smooth motion for scan and slow, forward and reverse; scrolling text; auto power-off; shuttle dial on unit; remote control with joystick. 8 lb $700

DVD-A110 DVD Player
10-bit video can 24-bit audio D/A converter. Plays DVDs with 96-kHz/24-bit audio, video CDs. DTS-compatible; virtual surround sound; dual-focus optical pickup. Coaxial and optical digital output; dual A/V output jacks; headphone jack with volume control. 5-speed smooth motion for scan and slow, forward and reverse; scrolling text; auto power-off; remote with joystick control. 8 lb $500

PHILIPS

DVD 855AT DVD Player
10-bit video and 24-bit audio D/A converter. Plays DVDs with 96-kHz/24-bit audio, video CDs, and DVD-R discs. DTS-compatible; 3 play speeds; dual-lens optical pickup; built-in Dolby Digital decoder. Gold-plated outputs; headphone jack with volume control. Digital zoom; graphic bit-rate display; screen saver; backlit remote with jog/shuttle control. Black brushed-metal finish. 17 x 3¼ x 12 in; 8 lb $599

PHILIPS MAGNAVOX

DVD 850AT DVD Player
10-bit D/A converter. Plays DVDs with 96-kHz/24-bit audio, video CDs. DTS-compatible; 3 play speeds; dual-lens optical pickup; built-in Dolby Digital decoder. Gold-plated composite-video, component-video, and S-video outputs; gold-plated coaxial and optical digital outputs; gold-plated 6-channel analog output; headphone jack with volume control. Bit-rate display; remote confirm; remote locator; jog/shuttle control on remote; screen saver $549

DVD 815AT DVD Player
10-bit D/A converter. Plays DVDs with 96-kHz/24-bit audio, video CDs. DTS-compatible; 3 play speeds; dual-lens optical pickup. Component-video output; coaxial digital output; headphone jack with volume control. Bit-rate display; screen saver; 3-D sound mode. Black. 17 x 3¼ x 12 in; 8 lb $449

DVD 405AT DVD Player
10-bit D/A converter. Plays DVDs with 96-kHz/24-bit audio, video CDs. 3 play speeds; dual-lens optical pickup. Coaxial digital output; headphone jack with volume control. Bit-rate display; 3-D sound mode; remote confirm; screen saver. Black. 14½ x 3¼ x 12 in; 7 lb $399

PIONEER

Elite DV-09 DVD Player
10-bit video and 24-bit D/A converter. Plays DVDs with 96-kHz/24-bit audio, video CDs. DTS-compatible. 2 composite-video outputs, 2 S-Video outputs, and one component-video output; 2 coaxial and 1 optical digital outputs. Glossy Urushi black finish. 14⅝ x 5¾ x 18¼ in; 19 lb $2,000

DVL-91 DVD/Laserdisc Player
10-bit video and 20-bit audio D/A converter. Plays DVDs with 96-kHz/24-bit audio, CD-Rs, CD-RWs, and laserdiscs. DTS-compatible. 1 component-video, 2 composite-video, and 2 S-video outputs; coaxial and optical digital outputs. Black. 16½ x 5½ x 18¼ in; 20 lb $1,800

DVL-909 DVD/Laserdisc Player
10-bit video and 20-bit D/A converter. Plays DVDs with 96-kHz/24-bit audio, video CDs, CD-Rs, CD-RWs, and laserdiscs. 1 component-video and 2 S-video outputs; 2 analog RCA outputs. Black. 16½ x 5¾ x 18¼ in; 19 lb $1,055

DV-606D DVD Player
10-bit video and 24-bit audio D/A converter. Plays DVDs with 96-kHz/24-bit audio, video CDs, and

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DTS LaserDisc

and DVD

THX Digitally Mastered

image ENTERTAINMENT

CD-RWs; DTS-compatible. Built-in Dolby Digital decoding. 1 component-video, 2 composite-video, and 2 S-video outputs; optical and coaxial digital output. 16½ x 4⅛ x 11¼ in; 7 lb $599

DV-505 DVD Player
10-bit video and 20-bit audio D/A converter. Plays DVDs with 96-kHz/24-bit audio and video CDs. 2 composite-video and 2 S-video outputs; 2 analog outputs. Black. 16½ x 4⅛ x 11¼ in; 6 lb $399

PROCEED
MDT DVD Transport
Component-video output; coaxial RCA or BNC digital output; AES/EBU digital output. Silver/charcoal. 5-yr transferable warranty $5,000

PROSCAN
PS8600P DVD Player
9-bit video and 20-bit audio D/A converters. 2 play speeds; built-in Dolby Digital decoder. Coaxial digital output; 2 analog audio outputs; gold-plated terminals; headphone jack. Audible search; backlit universal remote control with jog/shuttle dial. 16 x 3 x 12 in $699

PS8610P DVD Player
10-bit D/A converter. DTS ready; built-in Dolby Digital decoder. 2 coaxial digital audio outputs; 2 A/V outputs; 1 component-video output; 6-channel audio output; gold-plated jacks. Backlit remote control. Gray. 15½ x 2⅞ x 11½ in; 7 lb $699

RCA
RC5500P DVD Player
9-bit video and 20-bit audio D/A converters. 2 play speeds; digital special effects; Dolby Digital decoder. Coaxial digital output; 2 analog audio outputs; headphone jack. Audible search; universal remote with jog/shuttle controls. 16 x 3 x 12 in $699
RC5200P. As above without jog/shuttle controls or Dolby Digital decoder $499

RC5510P DVD Player
10-bit D/A converter. DTS ready; built-in Dolby Digital decoder. 2 coaxial digital audio outputs; 2 A/V outputs; 1 component-video output. Black. 15½ x 2⅝ x 11½ in; 7 lb $599

RC5210P DVD Player
10-bit D/A converter. Coaxial digital audio output; headphone jack. Black. 15½ x 2⅝ x 11½ in; 7 lb $499

RC5230Z DVD/Divx Player
Plays Divx pay-per-view discs; plays DVDs with 96-kHz/24-bit audio; plays CD-Rs. Optical digital audio output; headphone jack. Black. 15½ x 2⅝ x 11½ in; 7 lb $499

REVOX
B23/Emotion DVD Player
10-bit Sigma-delta D/A converter. Plays DVDs with 96-kHz/24-bit audio. Dual-lens optical pickup. Component-video output. Brushed aluminum or black anodized. 17½ x 2½ x 14½ in; 24 lb $3,500

SAMSUNG
DVD927 DVD Player
10-bit video D/A converter. Plays DVDs with 96-kHz/24-bit audio, video CDs. Built-in Dolby Digital decoder; enhanced analog audio and video circuitry. 1 component-video output; 1 S-video output; 2 composite-video outputs; 2 analog audio outputs; coaxial and optical digital outputs. Preprogrammed universal remote control with illuminated keys. Time search. Black steel/anodized-aluminum chassis. 4¾ x 13½ x 16⅛ in; 12 lb $499
DVD907. As DVD927 without enhanced analog audio or video circuitry, chassis not steel/anodized aluminum. 3¾ x 17 x 20½ in $449

SHARP
DV-550U DVD Player
10-bit video D/A converter. Plays video CDs. Digital Gamma correction; Dolby Digital decoding; Dolby Pro Logic decoding; Q Sound virtual surround. Component-video output; coaxial and optical digital outputs. 17 x 5 x 21 in; 9 lb $750

SONIC FRONTIERS
DVD-1 DVD Player
24-bit D/A converter. Plays DVDs with 96-kHz/24-bit audio, CD-Rs. Component-video output; XLR and RCA audio outputs. 5 yr parts-and-labor warranty. 19 x 5¼ x 13 in; 25 lb $3,999

SONY
DVP-S7700
10-bit video and Current Pulse D/A converters. Plays DVDs with 96-kHz/24-bit audio, video CDs. DTS-compatible. Dual optical pickups; Full Feed Forward audio digital filter; component-video output; coaxial and optical digital outputs; headphone jack with volume control; S-link interface. DVD/CD Text display; video bit-rate meter. Black aluminum finish. 17 x 4⅝ x 15⅜ in; 11 lb $899

DVP-C600D DVD Player
5-disc changer. 10-bit video and 24-bit audio D/A converters. Plays DVDs with 96-kHz/24-bit audio and video CDs. Dual optical pickups; Dolby Digital decoder; variable-coefficient digital filter; virtual surround sound. 1 component-video, 2 composite-video, and 2 S-video outputs; coaxial and optical digital outputs; headphone jack with volume control; S-link interface. DVD/CD Text display; video bit-rate meter; screen saver; multibrand remote with glow-in-dark keys. Black or brushed aluminum. 17 x 5 x 15⅛ in; 11 lb $899

DVP-S500D DVD Player
10-bit video and 24-bit audio D/A converter. Plays DVDs with 96-kHz/24-bit audio, video CDs. Dual optical pickups; Dolby Digital decoder; variable-coefficient digital filter; enhanced virtual surround sound. 1 component-video, 2 composite-video, and 2 S-video outputs; coaxial and optical digital outputs; 1 headphone jack with volume control; S-link interface. Video bit-rate meter; screen saver; multibrand remote with glow-in-dark keys. Black or brushed aluminum. 17 x 3⅜ x 12¾ in; 9 lb $699

DVP-S300 DVD Player
10-bit video and 24-bit audio D/A converter. Plays DVDs with 96-kHz/24-bit audio, video CDs. Dual optical pickups. 2 composite-video and 2 S-video output; optical and coaxial digital outputs; 1 headphone jack with volume control; S-link interface. Smoothscan picture search; jog/shuttle dial; video bit-rate meter; screen saver. Black or brushed aluminum. 17 x 3⅜ x 12¾ in; 9 lb $599

THETA DIGITAL
Voyager Universal Transport DVD Player
Plays DVDs with 96-kHz/24-bit audio, laserdiscs, video CDs, and CDVs. DTS-compatible. 1 component-video, 2 composite-video, and 2 S-video outputs; RCA, BNC, and AES/EBU digital outputs; optical digital output optional. Black or silver. 19 x 7¾ x 20 in; 52 lb $6,500

DaViD DVD Player
Plays DVDs with 96-kHz/24-bit audio, video CDs. DTS-compatible. 1 component-video, 2 composite-video, and 2 S-video outputs; RCA, BNC, and AES/EBU digital outputs. Black or silver. 19 x 3½ x 16½ in; 25 lb $4,500

TOSHIBA
SD7108 DVD Player
10-bit video and 24-bit audio D/A converter. Plays DVDs with 96-kHz/24-bit audio, CD-Rs, and video CDs. DTS-compatible; advanced jitter-reduction circuit; video black-level expander circuitry; 3-D noise reduction; Spatializer N-2-2 virtual surround sound for use with 2 speakers or headphones. Component-video output; progressive-scan output; coaxial and optical digital outputs; 2 analog audio output; headphone jack. 25-sector zoom; fluorescent display; screen saver; bit-rate display; backlit preprogrammed universal remote with jog/shuttle control. Dark gray. 17 x 3¾ x 12⅛ in $1,199

SD3108 DVD Player
10-bit video and 24-bit audio D/A converter. Plays DVDs with 96-kHz/24-bit audio, CD-Rs, and video CDs. DTS-compatible; jitter reduction; video black-level expander circuitry; 3-D noise reduction; Spatializer N-2-2 virtual surround sound for use with 2 speakers or headphones. Component-video output; coaxial and optical digital outputs; 2 analog audio outputs; headphone jack. 25-sector zoom; bit-rate meter; fluorescent display; karaoke vocal; time search; screen saver; backlit preprogrammed universal remote with jog/shuttle control. Dark gray. 17 x 3¾ x 12⅛ in;10 lb $799

SD2108 DVD Player
10-bit video and 24-bit audio D/A converter. Plays DVDs with 96-kHz/24-bit audio, CD-Rs; DTS-compatible. Video black-level expander circuitry; Spatializer N-2-2 virtual surround sound. Component-video output; coaxial and optical digital outputs; 2 analog audio outputs. 25-sector zoom; fluorescent display; remote confirmation; screen saver; bit-rate meter. Dark gray. 17 x 3¾ x 12⅛ in $599

SD2008 DVD Player
10-bit video and 24-bit audio D/A converter. Plays DVDs with 96-kHz/24-bit audio and CD-R. Video black-level expander circuitry; Spatializer N-2-2 virtual surround sound. Dolby Digital output; coaxial digital output. 25-sector zoom; fluorescent display; screen saver; bit-rate meter. Dark gray. 17 x 3¾ x 12⅛ in; 9 lb $499

VAC
DVD-1 DVD Player
24-bit D/A converter. Plays DVDs with 96-kHz/24-bit audio. HDCD decoding; nonmagnetic chassis. Component-video output; coaxial and optical digital outputs. Powder-coat finish standard; available in custom colors, wood, or leather. 5-yr warranty. 20⅞ x 7¼ x 16¾ in; 26 lb $8,490

YAMAHA
DVD-C900GL 5-Disc DVD Changer
5-disc changer. 10-bit video and 24-bit audio D/A converter. Plays DVD 96-kHz/24-bit audio, video CDs. DTS-compatible; play exchange; aluminum front panel; input/output port for custom installation; built-in Dolby Digital decoder. Component-video output; 2 analog audio outputs; 1 optical digital output. Gold. 17⅛ x 4 x 15½ in $1,399
DVD-C900. As above, black $1,199

DVD-S700 DVD Player
10-bit video and 24-bit audio D/A converter. Plays DVDs with 96-kHz/24-bit audio, video CDs. Built-in Dolby Digital decoder; DTS-compatible. 1 component-video, 2 composite-video, and 2 S-video outputs; coaxial and optical digital outputs. Black-aluminum front panel $799

ZENITH
DVX2100 DVD/Divx Player
9-bit video D/A converter. Plays DVDs with 96-kHz/24-bit audio, Divx pay-per-view discs; MPEG-1 and MPEG-2 video decoders; built-in modem for billing and promotional messages; 2 composite-video outputs; 1 S-video output; optical and coaxial digital outputs. Preprogrammed remote control with skip and scan functions. Time search. Includes 25-ft phone cord and phone-jack doubler. Dark gray finish. 3¼ x 15¾ x 12⅛ in; 9 lb $499

SONY

THIS CHANGES EVERYTHING

NOW PREMIERING: THE WORLD'S FIRST FIVE-DISC DVD/CD CHANGER.

The new Sony DVP-C600D lets you enjoy Sony "reference standard" performance for movies and music.

The DVP-C600D has the same 10-bit video D/A converter, Dual Discrete optical pick-up and Smooth Scan picture search found in our finest DVD players. It also features component video output and built-in Dolby Digital decoding with exclusive Digital Cinema Sound processing. And for even more versatility, the DVP-C600D allows you to control a Sony Megastorage™ CD changer!

Once again, Sony is changing the home entertainment experience.

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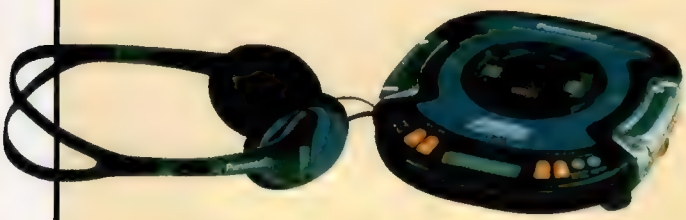
CD Components

Players, changers, transports, and digital-to-analog converters

The compact disc has earned its status as the world's primary music medium. Its combination of superb sound quality, immunity to wear in normal use, and portability give it a great advantage over LPs and tapes. Accordingly, a CD player is the main music source in most of today's stereo systems.

CD players come in almost as many varieties as Baskin-Robbins ice cream, ranging from portables to single-disc home players to five- or six-disc carousel changers to megachangers that store up to 300 discs. You can also choose to buy the two basic portions of the CD player, the transport and the digital-to-analog (D/A) converter, as separate components, much like a separate preamplifier and power amplifier. No matter which type of player or transport you choose, it should be reasonably shock resistant and be able to play through a moderately dirty or scratched disc without skipping or muting. Check a player's shock resistance in the store by tapping on its top and sides. If you have any slightly damaged discs, take them along as well to check for playback robustness.

When the LP ruled, turntables were king, and music lovers rhapsodized and agonized over the choice of a phonograph cartridge. The cartridge wielded great influence over the sound of the system, and even first-time buyers could discern sonic differences between cartridges. CD players present a greater challenge, because sonic differences tend to be subtle. Only concentrated listening under controlled circumstances (playing the same CDs through the same system using precisely matched levels) can consistently reveal that one CD player sounds different from another. Don't be surprised if you can't easily hear any differences among many players.



PANASONIC SL-SW505 PORTABLE CD PLAYER

In our guide you'll see a slew of different digital-to-analog (D/A) converters mentioned, such as 1-bit, Bitstream, hybrid-pulse, high-density linear, MASH, and 16- and 18-bit. Each of these technologies, when properly used, can yield superb sound. Laboratory measurements may show slight differences among players, but more than likely any differences will not stem from the kind of D/A converter used but from how well the design is implemented and the quality of the related circuitry.

SONY CDP-CX70ES 200-DISC CHANGER

Single-disc players are becoming an endangered species. While LP changers sacrificed performance and brutalized records, CD changers cause minimal, if any, compromise. You'll find most single-disc players at the very low and very high ends of the price spectrum, with a limited number of models sprinkled in between. Perhaps the biggest advantage of a single-disc player is that it can be a bit quicker and easier to load and unload a single disc. The high-end single-disc models also provide a sturdier, more refined transport mechanism than changers.

The carousel-style changer is the reigning star of CD players. Carousels vanquished the magazine- or cartridge-style six- and ten-disc changers, and only a few of those remain on the home market, although they dominate the automotive market. Most carousels can hold five discs, a few six discs. Nearly all load using a large, motorized drawer. The mechanism removes a selected disc from the drawer for play so that you can change most of the other loaded discs while listening to one.

A megachanger might enable you to store your entire CD collection in the player, depending on how many discs you have. Capacity ranges from 50 to 300 discs. Many megachangers can be coupled or daisy-chained to increase capacity. To cope with that many discs, most manufacturers permit grouping the CDs in categories — according to music type or family member, say — and provide a book in which to store the CD inserts. Many of the pricier models let you enter a CD's title in memory for display on the front panel.

— Rich Warren

It Even Makes the Popcorn.

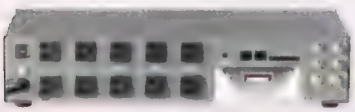
Upon entering your home theater, you push a single button...

The recessed lights turn on and then dim. Your components power up, one by one. The screen descends. Background music sets the mood. As you settle in your chair and the movie begins, you sense the aroma of fresh popcorn. You think to yourself – "hey! this is cool!"

Introducing the breakthrough technology of the incredible Max® 2000.

The *only* Programmable Power Control System that can perform a variety of functions to enhance your audio/video experience. First, it's the highest quality surge protection available, providing a clean operating environment and constantly monitoring incoming power.

Second, enhanced noise reduction and line conditioning allow your valuable components to give you the best picture and sound possible. And finally, the Max 2000's fully programmable outlets and relays allow the total automation of a home theater system from one spot.



Current sensing outlets, voltage sense connections and a master switch can all trigger on/off sequencing for the individual outlets and outlet banks. Infrared remote signals can be programmed to trigger various system functions such as volume, lighting and screen control. The Max 2000 even includes switchable 12V output for devices that require it.

Panamax offers the ultimate in component protection for any size system.

When you buy Panamax, You buy confidence. Over 23 years of experience goes into every Panamax power protector and establishes the standard to which all others aspire. Panamax is your best answer to a complete line of full-featured component protection.

So ask your dealer about the incredible Max 2000 and then decide for yourself – buttered or unbuttered?

PANAMAX Plug into Panamax – www.panamax.com (800) 472-5555

CD Components

ACCUPHASE

DC-91 D/A Converter
20-bit D/A converter. HPC and Toslink digital inputs; HPC XLR digital input; coaxial digital inputs; RCA and XLR analog outputs. Phase switch; output-level control. THD 0.002% from 20 Hz-20 kHz; S/N 120 dB. 18¾ x 5⅞ x 15 in; 50 lb $13,995

DP-75 CD Player
20-bit D/A converter. Double-heterodyne-diode laser pickup; 3-pole discrete analog filter; balanced drive circuitry for servo motors; digital CD-mechanism control; 8 DACs per channel; locking transport tray. Optical and coaxial digital inputs and outputs; coaxial-BNC digital input; RCA output. Digital level control; track search; track/time displays; remote control. FR 4 Hz-20 kHz ±3 dB; THD 0.0024% from 20 Hz-20 kHz; S/N 120 dB; dynamic range 98 dB; ch sep 110 dB. 18¾ x 5⅞ x 15⅞ in; 43 lb $9,995

DP-90 CD Transport
Double-heterodyne-diode laser pickup; locking transport tray. Coaxial and optical digital outputs; digital output. Track search; track/time displays; remote control. 18¾ x 5⅞ x 15 in; 45 lb $7,495

DC-61 D/A Converter
20-bit D/A converter. Multiple Bit-type D/A converter; high-precision sampling frequency converter; 20-bit linearity; 4-pole analog filter. 2 optical, 1 BNC, 2 coaxial, 2 optical record, 2 coaxial record digital inputs. Remote control. FR 4 Hz-20 kHz ±0.3 dB; THD 0.0024%; S/N 120 dBA; dynamic range 98 dB. Brushed-aluminum finish. 19 x 5½ x 16 in; 25 lb $6,000

DP-65 CD Player
20-bit D/A converter. Double-heterodyne diode laser pickup; locking transport tray; 4 DACs per channel. Optical and coaxial digital outputs; RCA and XLR outputs. Track search; track/time displays; remote control. THD 0.0025% from 20 Hz-20 kHz; S/N 118 dB; dynamic range 98 dB; ch sep 106 dB. 18¾ x 5½ x 15¼ in; 34 lb $5,750

DP-55 CD Player
20-bit D/A converter. 3 DACs per channel; locking tray. Coaxial and optical digital input; two digital outputs; and analog outputs. Track search; track/time displays; remote control. THD 0.0038% from 20 Hz-20 kHz; S/N 116 dB; dynamic range 97 dB; ch sep 105 dB. 18¼ x 5⅛ x 15⅛ in; 24 lb $3,995

ACURUS

ACD11 CD Player
1-bit D/A converter. Glass optics; chassis suspended on air cushion; steel chassis. Coaxial digital output. Random/repeat play; defeatable display lighting; programmable remote control. 19-inch front panel optional. FR 5 Hz-20 kHz ±0.3 dB; THD 0.005%; S/N 100 dBA; dynamic range 92 dB; ch sep 88 dB. 17 x 5 x 11 in; 20 lb $899

ADCOM

The following feature dual 20-bit Burr-Brown ladder-type D/A converters.

GCD-750 CD Player
8X oversampling; Pacific Microsonics PMD-100 digital filter/HDCD decoder; high-mass transport. 1 coaxial digital input; XLR and RCA outputs. Track programming; repeat modes; random play; remote control. FR 20 Hz-2 kHz ±0.5 dB; THD 0.015%; S/N 106 dB; dynamic range 101 dB. Black. 17 x 4¾ x 16½ in $1,250

GDA-700 D/A Converter
HDCD decoder; RFI/EMI filtering; anodized-aluminum front panel. 2 RCA inputs; optical digital input; AES/EBU input; XLR and RCA outputs; gold-plated RCA and XLR connectors. Digital-domain phase-reverse switch; HDCD decoding indication. 17 x 3 x 11½ in; 10 lb $1,000

GCD-700 5-Disc CD Changer
5-disc carousel. Class A analog output circuitry. Fixed- and variable-level RCA outputs; coaxial digital output. Selectable digital-domain phase reverse; remote control. FR 20 Hz-20 kHz –0.5 dB; THD 0.005%; S/N 100 dBA. 17 x 4¼ x 16¼ in; 15 lb $700

AIWA

XC-30M 5-Disc CD Changer
5-disc carousel. 20-track programming; remote control. 17 x 6 x 13¼ in; 20 lb $180

XP-SP1200 Portable CD Player
1-bit D/A converter. 40-sec antishock system; 12-hr play; DSL bass; water-resistant; rubberized areas for durability. 24-track programming; 3-point LED battery-life indicator. Operates on 2 AA batteries. Includes AC adapter and headphones. Black, purple, or orange. 5⅜ x 1⅜ x 6⅜ in; 13 oz ...$180

XP-779 Portable CD Player
1-bit D/A converter. 20-sec electronic antishock system; 18-hr play; DSL bass. 3-point LED battery life indicator; car kit; backlit LCD display. Operates on 2 AA batteries. Includes cassette adapter; DC adapter; AC adapter; headphones. Silver or black. 5⅜ x 1 x 6¼ in; 9 oz $120

XP-R970 Portable CD Player/Tuner
1-bit D/A converter. 10-sec electronic antishock system; DSL bass; built-in AM/FM digital tuner. 3-point LED battery life indicator; 24-track programming. Operates on 2 AA batteries. Includes AC adapter and headphones. Silver or black. 5½ x 1¼ x 6⅜ in; 10 oz $120

SD-SP800 Portable CD Player
1-bit D/A converter. 10-sec electronic antishock system; DSL bass; water-resistant; rubberized areas for durability. 3-point LED battery life indicator. Operates on 2 AA batteries. Includes AC adapter and headphones. Black, purple, or orange. 5⅜ x 1⅜ x 6⅜ in; 14 oz $100

XP-579 Portable CD Player
1-bit D/A converter. 10-sec electronic antishock system; DSL bass. LCD battery life indicator. Operates on 2 AA batteries. Includes car kit (cassette and DC adapters), AC adapters and headphones. Silver or black. 5¾ x 1⅛ x 6¼ in; 9 oz $100
XP-570 Portable CD Player. 1-bit D/A converter. As above without car kit $80

AMC

CD 8a CD Player
1-bit MASH D/A converter. 18-bit resolution; 32X oversampling; linear phase with 18-bit coefficients; 5-pole analog active filter. RCA outputs; coaxial digital output; XLR output. 21-track programming; search and repeat; track/time displays; remote control. FR 5 Hz-20 kHz ±0.5 dB; THD 0.0025% at 1 kHz; S/N 110 dB; dynamic range 98 dB. 17 x 3½ x 13½ in; 11 lb $400
AC01. XLR to RCA cable $100
CD 8a-5404. As above, upgraded to XLR tube line output stage $700
CD 9. As CD 8a without XLR output $300

DAC-8 D/A Converter
1-bit MASH D/A converter. 18-bit resolution; ultra-linear D/A converter with low jitter; double-sided throughhole printed circuit boards; 2-V output. 1 optical, 3 coaxial inputs; 1 BNC record output; analog output. Front-panel manual input-source selection. FR 20 Hz-20 kHz ±0.3; THD 0.005%; S/N 104 dB; ch sep 103 dB. 17 x 3½ x 13½ in; 12 lb ...$250

ANTHEM

CD-1 6-Disc CD Changer
Dual 20-bit Burr-Brown D/A converters. Pacific Microsonics PMD-100 filter/HDCD decoder; 8X oversampling; vacuum-tube output stage. 1 coaxial digital, 1 AES/EBU digital, and 1 analog output. Programmable disc shuttle system; track-search and scan/shuffle functions; remote control. FR 20 Hz-20 kHz; THD 0.05%; S/N 100 dBA; dynamic range 98 dB. Black or silver. 5-yr parts-and-labor warranty $1,699

ARAGON

D2A2 D/A Converter
Dual Burr-Brown 20-bit D/A converters. Ultra Analog AES 21 receiver; HDCD decoding. 1 AES/EBU, 1 optical, and 2 coaxial digital inputs. THD 0.005%; S/N 110 dB. 19 x 3½ x 11 in; 20 lb $999

ARCAM

Alpha 9 CD Player
Custom 24-bit Ring D/A converter. HDCD decoder. Fixed-level analog outputs; coaxial digital outputs. Track skip; search and repeat; 24-track programming; shuffle play; intro scan; remaining-time LED display; remote control. FR 20 Hz-20 kHz ±0.5 dB; THD 0.005%; S/N 105 dB. Charcoal finish. 17 x 4 x 11 in; 9 lb $1,599

Delta Black Box 500 D/A Converter
1-bit D/A converter. Two coaxial inputs; 2 optical inputs; 1 AES/EBU input; 1 coaxial output. Selectable polarity; master clock sync with Alpha 8 CD transport. THD 0.005%; S/N 105 dB $1,500

Alpha 8SL CD Player
1-bit PWM D/A converter. Pacific Microsonics digital filter chip; low-jitter master clock. Fixed-level analog outputs; coaxial digital outputs. Track skip; search and repeat; 24-track programming; shuffle play; intro scan; remaining-time LED display; remote control. FR 20 Hz-20 kHz ±0.5 dB; S/N 100 dB. Charcoal finish. 17 x 4 x 11 in $1,249

Alpha 8 CD Player
1-bit PWM D/A converter. Fixed-level analog outputs; coaxial digital outputs. Remote control. FR 20 Hz-20 kHz ±0.5 dB; THD 0.005%; S/N 100 dB. 9 lb $999
Alpha 7. As above, multilevel delta-sigma D/A converter. 8 lb $649

Alpha MCD 6-Disc CD Changer
20-bit D/A converter. 6-disc vertical rack. Low-jitter master clock; Sony transport mechanism; multiroom capability. Analog outputs; coaxial digital outputs. Remote control. FR 20 Hz-20 kHz ±0.5 dB; THD 0.005%; S/N 100 dB; dynamic range 96 dB. Charcoal. 17 x 5 x 11½ in; 8 lb $999

Delta Black Box 50 D/A Converter
Hybrid 18-bit/1-bit D/A converter. 1 coaxial input; 1 optical input; 1 coaxial output. Selectable polarity; master clock sync with Alpha 8 CD transport. THD 0.005%; S/N 103 dB $899

AUDIO BY VAN ALSTINE

FET-Valve TOPP-DAC Tube D/A Converter
Dual 16-bit D/A converters. 4X oversampling; hybrid vacuum-tube/MOSFET design. Coaxial digital input; line-level output. Black anodized faceplate. 12 x 3½ x 9 in $949

Omega III TOPP-DAC D/A Converter
Dual 16-bit D/A converters. 4X oversampling. coaxial digital input; line-level output. Black anodized faceplate. 12 x 3½ x 9 in $599

AUDIOLAB

Model 8000CDM CD Transport
Coaxial, optical, and AES/EBU outputs. Remote control. 17½ x 3 x 13 in; 16 lb $1,799

Model 8000CD CD Player
1-bit D/A converter. 128X oversampling; 20-bit resolution; Philips CDM 12.4 3-beam laser mechanism. 2 low-impedance audio outputs; DC cou-

pling from D/A converter to audio output; 75-ohm BNC digital output. 60-track programming; remote control. 17½ x 3 x 13 in; 16 lb $1,595

Model 8000DAX D/A Converter
24-bit D/A converter. 8X oversampling; HDCD filter/decoder. 3 optical and coaxial digital inputs; XLR AES/EBU inputs; low-impedance analog output; digital output. Phase switch. FR 2 Hz-20 kHz ±0.5 dB; THD 0.003%; S/N 100 dBA; ch sep 110 dB at 1 kHz. 17½ x 3 x 13 in; 13 lb $1,195

AUDIO NOTE

CD-3 CD Player
UltraAnalog 18-bit D/A converter. 8X oversampling; tube output; silver wiring. Analog output; digital output. Remote control. 17 x 5 x 14 in; 18 lb ...$4,000

CD-2 CD Player
UltraAnalog AD1865 18-bit D/A converter. 8X oversampling; tube output. Analog output; digital output. Remote control. 17 x 5 x 14 in; 18 lb ...$1,995

CD-1 CD Player
UltraAnalog AD1865 18-bit D/A converter. 8X oversampling; AD 1865 processor from UltraAnalog; tube output stage. Analog output; digital output. Remote control. 17 x 5 x 14 in; 18 lb $995

AUDIO RESEARCH

DAC3 MKII D/A Converter
Balanced output. ST-glass optical, coaxial, and AES/EBU digital inputs; RCA and XLR outputs. Phase-reverse, input-select, and auto-mute controls. S/N 90 dB. 19 x 5¼ x 11¾ in; 15 lb $3,995

CD2 CD Player
Delta-sigma D/A converter. Philips CD-ROM drive; 3-beam laser pickup; digital jitter elimination. BNC, AES/EBU, and optical digital outputs; XLR and RCA analog outputs. Track programming; skip/ scan; random play; repeat; remote control. FR 0.1 Hz-20 kHz ±0.2 dB; S/N 95 dBA; ch sep 94 dB at 1 kHz. 19 x 5¼ x 11¾ in; 16 lb $3,495

AUDIO SYNTHESIS

DAX-2 Pro D/A Converter
Dual 20-bit D/A converters. Coaxial, optical, ST fiber-optic, and AES/EBU digital inputs/outputs. THD 0.0002%; S/N 108 dBA $6,195
As above without AES/EBU input/outputs ...$4,695

BOSE

Lifestyle 901 CD System
Complete system featuring 6-disc CD changer; AM/FM tuner with 50 presets; 100 W/ch amplifier; 2 direct/reflecting speakers, each with 9 full-range drivers. Integrated signal processing; active electronic EQ. Black acrylic speakers, each 21 x 13 x 31 in; brushed aluminum Music Center $4,200

Lifestyle 5 CD System
Complete system featuring CD player; AM/FM tuner with 20 presets; amp rated at 100 W x 1 (subwoofer) + 50 x 2 (satellites). Subwoofer has 8-in driver; 2 dual-cube satellites each have 1 magnetically shielded 2½-in driver per cube. RF remote control. Finish: subwoofer, black veneer; satellites, black or white. Subwoofer 12⅞ x 21⅛ x 10 in. Satellite 3 x 6½ x 4⅞ in $1,499
Lifestyle 3. As above, two single-cube satellite speakers and smaller subwoofer with 5¼-in driver. Amp 50 W x 1 + 20 x 2 (satellites). $1,099

BOULDER

Model 2020 Advance D/A Converter
Five 20-bit D/A converters per channel. 8X oversampling; upgradable to all new formats. Four AES and ST inputs; one optical input; 2 AES outputs; 2 XLR fixed-level audio outputs. ¾-in-character LED display for easy visibility; remote control ...$33,000

CALIFORNIA AUDIO LABS

CL-10 5-Disc CD Changer
20-bit D/A converter. 5-disc digital servo transport; HDCD filter/decoder; discrete FET analog stage. Coaxial and AES/EBU digital outputs. Remote control. Custom performance software optional. FR 5 Hz-22 kHz –0.1 dB; THD 0.005%; S/N 95 dB; dynamic range 107 dB; ch sep 92 dB at 1 kHz $1,975

CL-15 CD Player/Processor
Dual 20-bit co-linear D/A converters. PMD-100 HDCD decoding filter; synchro system reclocking and jitter reduction. Coaxial digital input; RCA analog output. Remote/faceplate selection of digital input for auxiliary source and volume control; RS232 serial interface for software customization; remote control. FR 5 Hz-20 kHz ±0.1 dB; THD 0.005%; S/N 104 dBA; ch sep 115 dB at 1 kHz. 17 x 5 x 15¼ in; 19 lb $1,695

Alpha Tube D/A Converter
1-bit delta-sigma D/A converter. Analog stage with two 12AX7 vacuum tube; 18-bit resolution; jitter-reduction circuitry; tube-filament standby circuit. Coaxial, ST optical, and AES/EBU digital inputs. FR 5 Hz-20 kHz +0, –0.5 dB; THD 0.02%; S/N 100 dB; dynamic range 95 dB; ch sep 80 dB. 10 lb $1,495

CL-5 5-Disc CD Changer
1-bit MASH D/A converter. 5-disc carousel. 32X oversampling; digital servo transport; discrete analog stage; single-beam and all-glass optics laser; AC line filter; upgradable to CL-10. RCA analog output. Programmable play; remote control. FR 1 Hz-20 kHz ±0.2 dB; THD 0.005%; S/N 92 dB. 17 x 5 x 15¼ in; 18 lb $1,195

Icon MkII CD Player
18-bit D/A converter. Digital servo transport; discrete FET analog stage. coaxial digital output. Remote control. Fiber-optic digital output optional. FR 10 Hz-20 kHz ±0.2 dB; THD 0.005%; S/N 95 dB; dynamic range 105 dB; ch sep 91 dB at 1 kHz ...$995

Delta CD Transport
Digital-servo transport; jitter-reduction circuitry; 6-way power supply; AC noise filtration. Coaxial, optical, and AES/EBU digital outputs. Remote control; track programming. 8½ x 4½ x 12½ in; 11 lb ...$895

Sigma II Tube D/A Converter
1-bit delta-sigma D/A converter. Analog stage with one 12AX7 vacuum tube; 18-bit resolution. Coaxial and optical digital inputs. FR 5 Hz-22 kHz +0, –0.5 dB; THD 0.02%; S/N 100 dB; dynamic range 95 dB; ch sep 80 dB. 9 lb $750

DX-2 CD Player
1-bit MASH D/A converter. Digital-servo transport; discrete FET analog stage; AC noise filtration; low-jitter reclocking circuits. Coaxial digital and RCA-analog outputs. LCD display with switchable lighting; remote control. FR 5 Hz-20 kHz ±0.2 dB; THD 0.005%; S/N 92 dB; dynamic range 92 dB; ch sep 90 dB at 1 kHz. 3-yr warranty. 15 lb $649

Gamma D/A Converter
1-bit delta-sigma D/A converter. Coaxial and optical digital inputs. Phase switch; backlit display. FR 10 Hz-20 kHz +0, –0.1 dB; THD 0.006%; S/N 90 dB; ch sep 89 dB at 1kHz. 5 lb $195

CAMELOT TECHNOLOGY

Uther v2.0 Mk.2 D/A Converter
Burr-Brown D/A converter. PCM 63 P-J dual-differential D/A section; jitter reduction; HCDC digital filter; Royal Bloodline data bus for communication with other Camelot Technology products. 2 I²S, 2 AES/EBU inputs,1 Toslink optical, 1 ST-glass optical, and 2 coaxial digital inputs; 1 coaxial and 1 I²S digital output; XLR and RCA analog outputs. 8 user-accessible dither positions via remote control; infrared remote control. 5-yr transferable parts-and-labor warranty. 17 x 11½ x 4½ in; 14 lb $2,995
Charm I. DC battery-based power supply ...$3,995

Merlin PRO CD Transport
Pioneer stabilized-platter drive mechanism; temperature-controlled crystal oscillator for jitter control; low-resonance chassis. 1 AES/EBU and 2 I²S outputs; RCA and BNC coaxial outputs. 24-track programming; highlight scan; peak search and intro scan; microprocessor-controlled auto edit for recording; time display; full-function remote control. Silver or black anodized-aluminum front panel. 17 x 5 x 11 in; 15 lb $2,195

Morganna 24 CD Player
24-bit delta-sigma D/A converter. Jitter-reduction circuitry; analog volume control. Coaxial digital output; AES/EBU and 2 I²S digital outputs. 24-track programming; highlight scan; volume control; display-off switch; full-function remote control. Silver or black anodized-aluminum front panel. 17 x 5 x 11 in; 15 lb $2,195

Arthur v3.0 D/A Converter
20-bit Burr-Brown D/A converter. PCM-1702 D/A section; HDCD digital filter; passive post filter; combination passive/active Class A analog stage; bypass jumper for HDCD attenuation. Crystal Semiconductor 8412 input receiver; 2 I²S, 1 AES/EBU, 1 coaxial, and 1 optical input. Digital-domain phase reverse. ST input optional. 5-yr parts-and-labor warranty. 17 x 2 x 8 in; 7 lb $899
Charm II. DC battery-based power supply ...$599

CARVER

MV-5 5-Disc CD Changer
Multibit and Bitstream D/A converter. 5-disc carousel. Digital Time Lens circuitry to remove digital artifacts. SPDIF digital output; headphone jack with adjustable output level; remote-control jacks for connection to compatible components. Can change 3 discs while 1 plays; 3 repeat modes; shuffle mode; 32-track programming; removable rack handles; full-function remote control. FR 20 Hz-20 kHz ±0.5 dB; THD 0.004%; S/N 100 dB; dynamic range 90 dB; ch sep 80 dB at 1 kHz. Grained and anodized-aluminum front panel. 19 x 4 x 16¾ in; 15 lb ...$459

CARY AUDIO DESIGN

CD-302 CD Player
Dual 20-bit D/A converters. HDCD filter/decoder; Pioneer stabilized-platter drive mechanism; two 12AU7 triode vacuum tubes in low-pass filter network; analog-gain stage and output buffer; aluminum chassis. FR 20 Hz-20 kHz ±0.5 dB; THD 105 dB. 17 x 4 x 11 in; 15 lb $2,995

CD-301 CD Player
NPC SM5872BS D/A converter with passive digital filter, and 12AU7 and 12AT7 vacuum tubes. Volume selection on remote control. FR 4 Hz-20 kHz ±0.75 dB; S/N 101 dB. Black anodized faceplate; black epoxy-coated chassis. 1½ x 4½ x 15½ in; 20 lb $2,595

CEC

TL-1X CD Transport
Laser belt-drive design; precision-machined bearing; low-torque drive motor; vibration-absorbing Corian disc-clamping mechanism; 39-lb antiresonant chassis. AES/EBU, ST optical, and 2 coaxial digital outputs. Remote control. Brushed gold or satin-black anodized-aluminum finish $5,650

TL-2X CD Transport
Belt-drive design; vibration-absorbing Corian disc clamping mechanism; floating isolation system; 30-lb antiresonant chassis. Coaxial, optical, and AES/EBU digital outputs. Remote control. Brushed black or gold anodized aluminum $2,995

CELLO

Reference DAC D/A Converter
20-bit D/A converter. 8X oversampling; UV22 super CD encoding system. 2 coaxial and 4 bal-

anced digital inputs; AES and SPDIF inputs; 1 RCA and 2 XLR analog outputs. 6 input-source selections; test-tone generator. FR 20 Hz-20 kHz ±0.5 dB; THD 0.005%; S/N 108.5 dB. Brushed anodized-aluminum/teal faceplate. 19 x 4 x 12½ in; 20 lb $11,000

CHORD

DSC 1500 D/A Converter
Delta-sigma D/A converter. 256X oversampling. Coaxial, AES/EBU, and optical digital inputs; coaxial, AES/EBU, and 3 optical outputs. Front-panel display of 5 separate inputs. S/N 100 dB. 5-yr warranty. 16½ x 3½ x 14 in; 18 lb $6,750

DSC 1100 D/A Converter
Delta-sigma D/A converter. 256X oversampling. SPDIF-coaxial input and output. Front-panel display of full error, frequency, and digital de-emphasis states. THD 0.003%; S/N 110 dB. 5-yr warranty. 16½ x 3½ x 14 in; 18 lb $4,500

CLASSÉ

DAC-1 D/A Converter
Dual 20-bit D/A converters. HDCD decoder. 8X oversampling; AES/EBU, Toslink optical, ST-glass optical, and 2 RCA coaxial inputs; RCA and XLR outputs. Phase selection; display brightness. FR 20 Hz-20 kHz ±0.1 dB; THD 0.003%; S/N 110 dB; ch sep 123 dB at 1 kHz. Black or silver faceplate. 5-yr warranty. 19 x 14¾ x 3¼ in; 17 lb $3,995

CDP-1 CD Player
20-bit D/A converter. 8X oversampling; HDCD decoder. RCA and XLR outputs. 20-track programming; random play, repeat, and scan functions; standby mode; remote control. FR 20 Hz-20 kHz; S/N 108 dB; ch sep 116 dB at 1 kHz. Black or silver faceplate. 5-yr warranty. 19 x 13¾ x 4 in; 18 lb $3,495

CDT-1 CD Transport
AES/EBU, coaxial, and ST-glass outputs. 20-track programming; random play, repeat, and scan functions; remote control. Black or silver faceplate. 5-yr warranty. 19 x 4 x 13¾ in; 13 lb $3,495

CDP.5 CD Player
20-bit D/A converter. 8X oversampling; HDCD decoder. RCA and XLR outputs; AES/EBU digital output. 20-track programming; random play, repeat, and scan functions; standby mode; remote control. FR 20 Hz-20 kHz; S/N 106 dBA; ch sep 115 dB at 1 kHz. Black or silver faceplate. 5-yr warranty. 19 x 4 x 11½ in; 16 lb $1,995

CDP.3 CD Player
20-bit D/A converter. 8X oversampling; HDCD decoder. RCA and XLR outputs. Remote control. FR 20 Hz-20 kHz; S/N 100 dB; ch sep 100 dB at 1 kHz. Black or silver faceplate. 5-yr electronics warranty. 19 x 3¾ x 12⅞ in; 20 lb $1,395

CONRAD-JOHNSON

DV2-b CD Player
Bitstream D/A converter. Tube analog stage. Coaxial digital output. Programmable play; remote control. FR 20 Hz-20 kHz ±0.5 dB; THD 0.1%. Champagne-gold finish. 3-yr warranty. 18 lb $2,495
DF2. As above, solid-state analog stage ...$1,795

CREEK

CD43 CD Player
1-bit delta-sigma D/A converter. 24-bit resolution; AES/EBU digital output $995

DENON

DP-S1 CD Transport
Top loading design; 32-kilobyte antijitter buffer; airtight shield; sand-cast chassis frame; triple floating suspension; linear motor drive floating along 2 parallel guide shafts via magnetic coils; die-cast aluminum door; disc stabilizer. ST optical, AES/EBU, RCA, and BNC outputs; ST Gen-Lock connector for synchronization with D/A converter. Champagne gold with black anodized accents. 17⅛ x 5¾ x 15¾ in; 37 lb $8,000

DA-S1 D/A Converter
Four 20-bit D/A converters. Alpha processor for 20-bit resolution; analog output stage with Class A DC amp with FET input; balanced signal digitally calculated at D/A converter; separate digital and analog sections; separate left and right sections; linear slide motor. ST, optical, AES/EBU, RCA and BNC digital inputs; ST Gen-lock connector for synchronization with CD-transport master clock. FR 2 Hz-20 kHz ±0.2 dB; THD 0.0015%; S/N 120 dB; dynamic range 100 dB. Champagne gold with black anodized accents. 17⅛ x 5¾ x 15¾ in; 44 lb $7,000

DCD-1650AR CD Player
Four 20-bit D/A converters. 8X oversampling; digital servo; alpha processor for 20-bit resolution. Coaxial and optical outputs. Random play; 20-track programming; auto edit/space; peak search; fade in/out functions; display dimmer; remote control. FR 2 Hz-20 kHz; THD 0.0018%; S/N 118 dB; dynamic range 100 dB; ch sep 110 dB. Black. 17¼ x 5¼ x 13½ in; 26 lb $999

LA-2300 Combi-Player
Plays CDs and laserdiscs. Separate laserdisc and CD trays. Dolby Digital RF output; 2 A/V outputs; S-video outputs. Dual-side play; on-screen display; last memory with review mode; 24-track programming; random play; 7 repeat modes; intro scan; highlight scan; remote control $799

DCD-425 CD Player
Advanced multilevel noise-shaping D/A converter. 8X oversampling digital filter; 20-track program play; A/B repeat; 1-track repeat; all track repeat; random play; intro scan; remote control. FR 2 Hz-20 kHz; THD 0.006%; S/N 103 dB; dynamic range 95 dB; ch sep 92 dB. Black front panel, chassis cover. 17⅛ x 5 x 10 in; 9 lb $199

CD Changers
DCM-560 5-Disc CD Changer
Two 20-bit D/A converters. 5-disc carousel. Alpha processor for 20-bit resolution; D/A converters hand tuned to eliminate distortion; motor-driven volume control; vibration-resistant chassis; coaxial digital output. Bidirectional carousel rotation; can change 4 discs during play; favorite-track memory for 100 discs; synchro play with compatible cassette decks; 3 random-play, 5 repeat modes; 20-track programming; direct track access; remote control. FR 2 Hz-20 kHz; THD 0.002%; S/N 113 dB; dynamic range 100 dB; ch sep 102 dB. Black front panel, chassis cover. 17⅛ x 4½ x 15½ in; 14 lb $649
DCM-460. As above without motor-driven volume control or vibration-resistant chassis $449

DCM-360 5-Disc CD Changer
20-bit D/A converter. 5-disc carousel. Alpha Processor for 20-bit resolution; 20-bit 8X oversampling digital filter. 20-track program play; 3-mode random play; 5-way repeat play; digital attenuator; remote control. FR 2 Hz-20 kHz; THD 0.0028%; S/N 108 dB; dynamic range 99 dB; ch sep 98 dB. Black. 17⅛ x 4½ x 15¾ in; 12 lb $319

DCM-260 5-Disc CD Changer
5-disc carousel. 20-bit 8X oversampling digital filter; Multilevel Noise Shaping D/A Converter. 20-track program play; 3-mode random play; 5-way repeat play; digital attenuator; remote control. FR 2 Hz-20 kHz; THD 0.006%; S/N 103 dB; dynamic range 95 dB; ch sep 92 dB. Black front panel, chassis cover. 17⅛ x 4½ x 15¾ in; 12 lb $269

DODSON AUDIO

DA217-MKII D/A Converter
Dual 20-bit D/A converters. Proprietary decoding; 12 regulated voltage supplies; HDCD decoding; upgradable via microprocessor software and the PLL module, microprocessor and digital Filter ICs; 2 PLL jitter-reduction circuits plus low-jitter reclocking circuit; DC servo for analog output voltage. 1 optical and 2 coaxial digital inputs; RCA and XLR analog outputs. Phase switch. FR 20 Hz-20 kHz ±0.1 dB; THD 0.001%; S/N 115 dBA; dynamic range 110 dB; ch sep 114 dB. 5-yr transferable warranty. 17 x 12 x 3 in; 16 lb $3,795

DAC-263H D/A Converter
Dual 20-bit Burr-Brown D/A converters. HDCD decoding; Proprietary filter/decoder circuits; PLL jitter-reduction circuitry. BNC-coaxial digital input; gold/rhodium RCA outputs. Phase switch; auto sampling-rate selection; LED indicators. FR 20 Hz-20 kHz ±0.1 dB; THD 0.0015%; S/N 110 dBA; dynamic range 100 dB; ch sep 110 dB. 17 x 12 x 3 in; 14 lb $1,995

DPA DIGITAL

PDM 1024 D/A Converter
128X-oversampling digital filter; 24-bit-wide data path; AES/EBU-compatible; split analog and digital domains; 24k gold-plated brass or copper for improved RF conductivity; high speed opto-isolators. 1 XLR input; 3 RCA inputs; 4 optical inputs; selectable digital output. User-adjustable dither levels. S/N 104 dB. 15¾ x 3 x 11⅞ in $11,500
PDM 256. As above, 64X-oversampling digital filter. S/N 101 dB $6,600

Renaissance CD Player
16-bit D/A converter. 26-bit internal floating-point digital filter; low-jitter internal architecture. LCD; front panel controls; remote control. FR 20 Hz-20 kHz ±0.2 dB; S/N 95 dB. 15¾ x 3 x 11⅞ in $1,895

Enlightenment D/A Converter
Dual 16-bit D/A converters. 8X-oversampling; 34-bit internal floating-point digital filter; transport jitter removal; precision band-gap reference sources. Coaxial and optical inputs with auto switching. S/N 95 dB. 11 x 3 x 7⅛ in $1,595
Renaissance. As above, 8X-oversampling; 26-bit internal floating point digital filter $1,049

Enlightenment CD Transport
Low RF noise generation; 3-beam laser; low-jitter internal structure. Coaxial and optical outputs. Remote control; LCD; front panel controls for all major functions. 15¾ x 3 x 11⅞ in $1,395

Little Bit Three D/A Converter
Double-phase lock loop for low jitter; extensive RF filtering. Optical and coaxial inputs; analog and digital outputs. S/N 90 dB. 15¾ x 2⅜ x 11 in $595

DUAL

CD5150 CD Player
16-bit D/A converter. 20-track programming; remote control. FR 20 Hz-20 kHz; THD 0.05%; S/N 100 dB; dynamic range 95 dB $695

CD1070 CD Player
Dual 18-bit D/A converters. 16-track programming; remote control. FR 2 Hz-20 kHz; THD 0.01%; S/N 90 dB; dynamic range 96 dB $395

ENLIGHTENED AUDIO DESIGNS

Ultradisc 2000 CD Player
20-bit D/A converter. HDCD filter/decoder; dual-differential D/A conversion; stabilized-platter disc-drive mechanism; upgradable design. Fixed analog output; coaxial digital output. Track remaining-time display; 24-track programming; random play; remote control. FR 0 Hz-20 kHz ±0.1 dB; THD 0.001%; S/N 100 dBA $2,495

ENTEC

Number Server 180 CD Transport
Belt drive; remote control. 36 lb $4,750

When The Master Tells You He's Made The Best Sounding Radio In The World, You Listen!

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Henry Kloss

In 1963 Henry Kloss changed how the world listened to music when he introduced the first high-fidelity FM table radio – the KLH Model Eight. The new *Model 88 by Henry Kloss*™ once again redefines how we listen to music.

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Model 88 includes a slim, easy-to-use remote control. It is backed by our 30-Day Total Satisfaction Guarantee. And best of all, it sells for only $199.

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Model 88 is the first table radio that sounds like a good component audio system. That's because it uses high-performance speakers and amplifiers – including a powered subwoofer! Two-thirds of *Model 88*'s cabinet serves as the enclosure for a four-inch long-throw subwoofer. It reproduces bass with remarkable accuracy and impact.

Model 88 also uses techniques like biamplification and electronic contouring (a technique pioneered by Henry Kloss) to create a natural, accurate octave-to-octave tonal balance over the entire range of music. And its FM tuner outperforms even "high-end" receivers.

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Henry Kloss created a new category of audio product – the FM table radio – when he introduced the KLH Model Eight in 1963. He further refined the concept with the Advent Model 400 FM radio in 1974. Both the KLH and Advent radios became classics. If you'd like to hear the next classic from Henry Kloss, call our toll-free number or visit our website. We invite you to audition it in your own home, listening to your music, for 30 days. If you don't fall in love with it, return it for a full refund. Thanks for reading.

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Number Cruncher 1.1 D/A Converter
Delta-sigma D/A converter. BNC input. Phase-reverse control. 19 x 3½ x 15 in; 22 lb $3,995
Number Cruncher 1.5. Upgraded version of Model 1.1 .....$4,995

Accessories
The following are for the above D/A converters.

Goldstein power cord $375
Reference power cord $150
Clear-viewing metal lid $150
75-ohm BNC-to-BNC 1-m interconnect $100
Custom Canare interconnect set $90

ENTECH

Number Cruncher 205.2 D/A Converter
D/A converter. 6 independent voltage regulators; 5-pole anti-alias filter; 20-bit resolution. 2 coaxial and 1 optical digital input. LED indicator for data lock; 3 front-panel LEDs showing input selection; front-panel touch-sensitive input source selector; phase control. FR 20 Hz-20 kHz ±0.25 dB; THD 0.005%. Anodized aluminum. 3-yr warranty. 6¼ x 3 x 8½ in; 5 lb $450

Number Cruncher 203.2 D/A Converter
D/A converter. 5 independent voltage regulators; 3-pole anti-alias filter; 20-bit resolution. 1 coaxial and 1 optical digital input; analog output. Front-panel data-lock display; rear-panel input selector. FR 20 Hz-20 kHz ±0.25 dB; THD 0.005%. Anodized aluminum. 3-yr warranty. 6¼ x 3 x 4 in; 3 lb $299

ESOTERIC

P2s CD Transport
Overhead turntable with double-layer construction comprised of brass and aluminum layers; concave turntable surface; green turntable tint to absorb stray laser light; servo system with low-pass filter to eliminate servo-signal destabilizing elements and minimize pickup vibration; 1.6-mm sheet-steel chassis with die-cast base and aluminum front panel; disc tray machined from 8-mm-thick aluminum with support of 6 ball bearings; PC-OCC internal wiring. ST, XLR, BNC, RCA, and Toslink digital outputs. Track/index select; search keys; time search; 40-track conventional/delete programming; 4 repeat modes; fluorescent display with dimmer; remote control with controls for D-2 D/A converter $7,000

D2 D/A Converter
Four 18-bit D/A converters. Antivibration chassis; 45-bit digital filter with noise shaping; dithering circuitry; 18-dB/oct Butterworth analog filter; MOSFET analog-circuitry parts. 2 coaxial and 2 optical digital inputs; XLR and RCA analog outputs; coaxial digital output. Digital phase-reverse and soft-mute switches; fluorescent display with dimmer. S/N 110 dB at 1 kHz $3,500

P700 CD Transport
Die-cast aluminum overhead turntable; concave turntable surface with laser pickup at matching angle; 1.6-mm sheet-steel chassis with die-cast base and aluminum front panel. Coaxial and optical digital outputs. 20-track conventional/delete programming; 4 repeat modes; track/time displays; remote control $1,500

D700 D/A Converter
Four 20-bit D/A converters. Dithering circuitry; circuitry to reduce zero-cross distortion; 18-dB/oct Butterworth analog filter. Two coaxial and two optical digital inputs; XLR and RCA analog outputs; coaxial digital output. S/N 110 dB at 1 kHz $1,350

GPX

C3925 Portable CD Player
20-sec electronic antishock protection; 8X oversampling; bass-boost system. DC input; line-level output; headphone jack. 6-digit LCD display; 24-track programming; skip/search; repeat and random play; intro scan; low battery level indicator. Operates on 2 AA batteries. Includes AC adapter; headphones; car cassette/cigarette lighter adapters. 10 oz $130

C3915 Portable CD Player
10-sec electronic antishock protection; 4X oversampling; bass-boost system. DC input; line-level output; headphone jack. 22-track programming; 6-digit LCD display; skip/search; repeat and random play; intro scan. Operates on 2 AA batteries. Includes AC adapter; headphones; car cassette/cigarette lighter adapters. 10 oz $110

C3912AQUA Portable CD Player
10-sec electronic antishock protection; 4X oversampling; bass-boost system. DC input; line-level output; headphone jack. 22-track programming; 6-digit LCD display; skip/search; repeat and random play; intro scan. Operates on 2 AA batteries. Includes AC adapter; headphones. Blue, green, or purple with clear acrylic CD door. 10 oz $100

C3913S Portable CD Player
10-sec electronic antishock protection; 4X oversampling; bass-boost system. DC input; line-level output; headphone jack. 22-track programming; 6-digit LCD display; skip/search; repeat and random play; intro scan; see-through CD door. Operates on 2 AA batteries. Includes AC adapter and headphones with in-line volume control. Satin and smoke see-through finish. 10 oz $100

C3860 Portable CD Player
4X oversampling; bass-boost system. DC input; line-level output; headphone jack. 22-track programming; 6-digit LCD display; skip/search; repeat and random play; intro scan. Operates on 2 AA batteries. Includes AC adapter; headphones. 10 oz $80

HARMAN KARDON

FL 8550 5-Disc CD Changer
Dual 20-bit Burr-Brown D/A converters. 5-disc carousel. Coaxial digital input; fixed-level analog output; variable headphone output. Can change 4 discs during play; HDCD decoding indicator; 32-track programming; random play; remote controlled direct track access. Includes analog cables. FR 20 Hz-20 kHz +0, –0.5 dB; THD 0.05%; S/N 100 dB; dynamic range 98 dB; ch sep 80 dB. Matte Black. 17⅜ x 5⅛ x 15¼ in; 17 lb $449

HD 720 CD Player
1-bit Burr-Brown D/A converter. Analog output. Switchable auto play. FR 20 Hz-20 kHz +0, –0.5 dB; THD 0.008%; S/N 100 dB; ch sep 90 dB. Matte Black. 17¼ x 4⅜ x 12¾ in; 9 lb $349

FL 8350 5-Disc CD Changer
1-bit D/A converter. 5-disc carousel. 8X oversampling. Coaxial digital input; analog output; fixed/variable headphone output. Can change 4 discs during play; 32-track programming; remote direct access; random play; remote control. Includes interconnect analog cables. FR 20 Hz-20 kHz +0, –0.1 dB; THD 0.05%; S/N 98 dB; dynamic range 96 dB; ch sep 80 dB. Matte Black. 17⅜ x 5⅛ x 15¼ in; 17 lb $329

JOLIDA

JD 601A CD Player
16-bit D/A converter. 8X oversampling; stereo gain stage utilizing 2 12AX7A tubes; 3-beam laser pickup. 24-track programming; auto edit function; repeat modes including A-B; fade out; remote control. THD 0.05%; S/N 85 dB; dynamic range 85 dB; ch sep 80 dB. Black. 14 x 4½ x 11 in $450

JRM ENGINEERING

DA-20P D/A Converter
Single-chip dual 19-bit D/A converters for each channel. 5-bit dither; 3 position user-programmable anti-alias filter; multislope PLL jitter reduction. 4 digital inputs; 4 line-level analog inputs; EBU digital input and output connectors. Volume, bass, midrange, treble controls. FR 0 Hz-20 kHz ±0.1 dB; THD 0.001% $2,610
RIAA phono module for above. FR 0-20 kHz ±0.1 dB $75

JVC

All JVC CD players and changers feature the Enhanced CompuLink Control System that allows control via a JVC receiver remote.

XL-MC302 101-Disc CD Changer
1-bit PEM D/A converter. 100-disc module and separate controller with single-disc tray. 3-beam laser pickup. Daisy-chain connection for play and control of two XL-MCM1 100-CD add-on transports for total of 301 CDs; 10 user files; delete file; remote disc-title index and search; 301-disc random play; 4 repeat modes; resume function; security door lock; intro scan; 300-disc title memory on LCD remote; continuous play; fluorescent display. THD 0.002%; S/N 107 dB; dynamic range 99 dB. Black $870
XL-MCM1. Add-on 100-disc transport for above. 3-beam laser pickup. Security door lock $550

XL-MC334BK 200-Disc CD Changer
1-bit PEM D/A converter. 200-disc vertical carousel. 8X oversampling. Optical input. Text CompuLink; automatic title transfer to MiniDisc; CD Text; remote control. Includes CD art booklet, CompuLink cables. THD 0.004%; S/N 105 dB; dynamic range 96 dB. Black. 17¼ x 7⅞ x 19 in; 17 lb $330

XL-M418BK 7-Disc CD Changer
1-bit PEM D/A converter. 6-disc magazine plus single-disc tray. Independent suspension system; servo system. 32-track programming; auto/manual search; auto power-on/off eject; 4 repeat modes; front-panel direct disc access; resume function; continuous play; 20-track program chart; fluorescent display; intro scan and remote control; 48-disc title memory and title-input jog dial. FR 2 Hz-20 kHz; THD 0.002%; S/N 107 dB; dynamic range 99 dB $280
XC-M75. 6-disc magazine for above $20

XL-MC222BK 200-Disc CD Changer
1-bit D/A converter. 8X oversampling. AC input; 2 CompuLink inputs/outputs. 32-track programming; 25-CD play exchange with 1 CD eject; random play; jog dial for disk/track selection; remote control. FR 4 Hz-20 kHz; THD 0.006%; S/N 100 dB; dynamic range 95 dB. Black with motor-driven clear-acrylic CD door $280

XL-F254BK 5-Disc CD Changer
1-bit PEM D/A converter. 5-disc carousel. Independent suspension system; servo system; disc-stabilizing clamper. Can change 4 discs while 1 plays; auto/manual search; front-panel direct disc access; continuous play; random play; 4 repeat modes; 32-track programming; fluorescent display; remote control. FR 2 Hz-20 kHz; THD 0.0022%; S/N 107 dB; dynamic range 98 dB $200
XL-F154BK. As above, no remote control $180

XL-V282BK CD Player
1-bit PEM D/A converter. Independent suspension system; servo system; disc-stabilizing clamper. Front-panel direct track access; 4 repeat modes; auto and programmed edit functions; 32-track programming; auto/manual search; Dynamic Detection Recording Processor; 15-track music calendar; remote control with direct access and indexing. FR 2 Hz-20 kHz; THD 0.0025%; S/N 106 dB; dynamic range 98 dB $190

XL-F5TH 5-Disc CD Changer
1-bit PEM D/A converter. 5-disc carousel. 8X oversampling. Can change 4 discs during play; front-panel direct key access; random play; 4 repeat modes; 32-track programming; 200-track music

calendar. FR 2 Hz-20 kHz; THD 0.0022%; S/N 107 dB; dynamic range 98 dB. Black. 15¾ x 5 x 15½ in; 11 lb $180

XL-P64CR Portable CD Player
1-bit D/A converter. 10-sec shock protection; heat-resistant body; 15-hr play; built-in battery recharger. Bass boost; 24-track programming; random play; repeat play; track skip/search; back-lit LCD when powered through car or AC; resume play/auto power off; hold switch; in-line remote. Includes car adapter, cassette adapter, and headphones $140
XL-P84CR. As above, 40-sec shock protection; 20-hr play; gold-colored housing; without in-line remote $170
XL-P54CR. As above, no in-line remote $120

XL-P34 Portable CD Player
1-bit D/A converter. 10-sec electronic shock protection; dynamic suspension system; high-speed pickup servo; 15-hr play; built-in battery recharger. Switchable bass-boost; 24-track programming; intro scan; random play; repeat play; auto power off; hold switch. Includes headphone $110

KENWOOD

CD-2280M 200-Disc CD Changer
Dual 1-bit D/A converters. 200-disc vertical rack. 8X oversampling; low-profile chassis; dual disc transports. 2 analog outputs and 1 digital output. Simultaneous dual-zone and continuous single-zone play; 15-character fluorescent display; CD Text; play exchange; disc-title and track-name memory; 32-track programming; 26-genre music type memory file; timer play; remote control. 17⅜ x 6⅞ x 18⅞ in; 20 lb $500
CD-2260M. As above, single-disc transport; single 15-character fluorescent display; no simultaneous dual-zone or continuous single-zone play; 1 analog output $350

CD-224M 200-Disc CD Changer
Dual 1-bit D/A converters. 200-disc mechanism. 8X oversampling; low-profile chassis. Analog output. CD Text; timer play; 15-character fluorescent display; play exchange; disc title memory; 26-genre music type memory; 32-track programming; remote control. FR 4 Hz-20 kHz ±0.5 dB; THD 0.005%; S/N 94 dB; dynamic range 96 dB; ch sep 92 dB at 1 kHz. 17⅜ x 6⅞ x 18⅞ in; 16 lb $250
CD-223M. As above, no remote control $230

CD 206 5-Disc CD Changer
Dual 1-bit D/A converters. 5-disc carousel. 8X oversampling; drive-distortion reduction circuitry; digital pulse-axis control; 3rd-order noise shaping. Analog outputs. Can change 4 discs while 1 plays; 32-track programming; random play with lockout; 1-touch recording; direct track access; audible fast-forward/fast-reverse; auto function 1-touch operation; CD Text; remote control $220

CD 204 5-Disc CD Changer
Dual 1-bit D/A converters. 5-disc carousel. 8X oversampling; digital pulse-axis control; 3rd-order noise shaping. Analog outputs. Can change 4 discs while 1 plays; 32-track programming; 1-touch recording; audible fast-forward/fast reverse; auto function 1-touch operation; random play with lockout; direct track access; remote control $160

DPC-885 Portable CD Player
Dual 1-bit D/A converters. Digital antishock with 20-sec buffer; wide-capture servo-recovery circuit; 3-point disc locking; digital bass boost. Line-level outputs. 22-track programming; audible fast-forward/fast reverse; shuffle play; track, disc, and program repeat; auto power-off. Includes sports-style headphones; high-capacity Ni-MH rechargeable batteries, AC adapter, LCD wired remote, and sports-style carrying case $150

DPC-993 Portable CD Player
Dual 1-bit D/A converters. Selectable 40- or 12-sec digital antishock protection; wide-captured servo-recovery circuit; 3-point disc locking; CD anchor. Line-out jack. LCD display; bass boost; 32-track programming; random play with lockout; back-lit LCD remote. Uses 2 or 4 AA batteries. Includes noise-canceling headphones; AC adapter $150
DPC-792. As above, lower-quality high-performance headphones; no illuminated LCD display or watch-style LCD remote. Includes car-cassette and car-power adapters $130
DPC-692. As above 20-sec digital antishock protection; no wide-capture servo-recovery circuit; standard headphones $100
DPC-492. As above 10-sec digital antishock circuitry; 24-track programming $90
DPC-391. As above without car-cassette or car-power adapter $70

CD 203 5-Disc CD Changer
Dual 1-bit D/A converters. 5-disc carousel. 8X oversampling; digital pulse-axis control; 3rd-order noise shaping. Analog outputs. Can change 4 discs while 1 plays; 32-track programming; audible fast-forward/fast-reverse; 1-touch recording; auto function 1-touch operation; random play with lockout; remote control $140

KRELL

KPC 25s CD Player
20-bit D/A converter. Analog circuitry; 16X oversampling. 2 optical inputs and outputs; 2 coaxial inputs and outputs; AES/EBU XLR input and output. 2 remote controls. FR 0.1 Hz-1 MHz +0, –3 dB; THD 0.005%; S/N 97 dBA. 5-yr electronics, 3-yr transport warranty. 19 x 5¼ x 15½ in; 55 lb $20,000

KAV-300cd CD Player
20-bit Burr-Brown ACM-1702K D/A converter. 8X oversampling; HDCD decoder; drawer loading. 12-V trigger input; 1 RCA and 1 XLR analog output; 1 optical and 1 coaxial digital output. Remote control. FR 20 Hz-20 kHz –0.18 dB; S/N 103 dB. 5-yr warranty. 19 x 4⅝ x 15 in; 22 lb $3,500

KAV-250cd CD Player
Dual 18-bit Burr-Brown D/A converters. HDCD decoding; analog circuitry; low-jitter master clock oscillator; direct coupled, complementary output circuitry. XLR and RCA outputs; coaxial digital output. Center-mounted front-loading mechanism; remote control. 5-yr electronics, 3-yr mechanical warranty. 19 x 3¾ x 15 in; 16 lb $2,350

LINN

Karik CD Player
1-bit delta-sigma D/A converter. Servo transport control; replaceable laser pickup. 2 RCA outputs; BNC and optical digital outputs; remote-control jack for multiroom use. Includes switch-mode power supply $3,595

Numerik D/A Converter
20-bit D/A converter. Switch-mode power supply. 2 BNC digital inputs; Auto input and sampling-rate selection with indicators $2,595

Mimik CD Player
1-bit delta-sigma D/A converter. Replaceable laser pickup. BNC digital output; remote-control jack for multiroom use $1,595

LUXMAN

D-700s CD Player
20-bit D/A converter. HDCD decoder; front-loading mechanism. 1 analog RCA phono output; XLR output; coaxial digital output. 24-track programming. FR 20 Hz-20 kHz ±1 dB; THD 0.002%; S/N 110 dB; dynamic range 98 dB; ch sep 108 dB at 1 kHz. Champagne gold. 3-yr warranty. 18¾ x 5⅛ x 15⅝ in; 10 lb $2,500

D-375 CD Player
1-bit delta-sigma D/A converter. Motor-driven volume control; line-phase sensor. Optical digital output; system-bus connection. Digital fade-out; tape edit; 24-track programming; synchro play with compatible cassette decks; random play; repeat play; auto scan; 20-track music calendar; timer play; fluorescent display with 3 brightness levels; remote control. FR 2 Hz-20 kHz ±1 dB; THD 0.004% at 1 kHz; S/N 105 dB; dynamic range 98 dB; ch sep 100 dB. Black or champagne $795

D-355 CD Player
1-bit delta-sigma D/A converter. Motor-driven volume control. System-bus connection. 24-track programming; synchro play with compatible cassette decks; random play; repeat play; auto scan; 20-track music calendar; timer play; fluorescent display with 3 brightness levels; remote control. FR 2 Hz-20 kHz ±1 dB; THD 0.007% at 1 kHz; S/N 96 dB; dynamic range 96 dB; ch sep 96 dB. Black or champagne $495

D-322 CD Player
18-bit D/A converter. Floating-pickup suspension; metal chassis and front panel. 20-track programming; auto edit/space; random and repeat play; remote control. FR 5 Hz-20 kHz ±1 dB; THD 0.003% at 1 kHz; S/N 105 dB; dynamic range 100 dB; ch sep 103 dB. 17½ x 4 x 11 in; 9 lb $395

MACH 1 ACOUSTICS

DMS Reference D/A Converter
20-bit D/A converter. optical, coaxial, and XLR digital inputs; RCA and XLR analog outputs. THD 0.01%; S/N 105 dB $2,395
DMS Standard. As above, lower-grade components and circuitry $1,895

MARANTZ

CD-17 KMII CD Player
Dual-differential 1-bit Bitstream D/A converters. CDM-12.1 3-beam holographic mechanism; Philips integrated digital servo controller with demodulator/decoder. Optical and coaxial digital outputs. Track scan; repeat play; index play; display dimmer; tape edit; peak search; CD Text; can play CD-RW discs; remote control. FR 5 Hz-20 kHz ±0.2 dB; THD 0.002%; S/N 104 dB; dynamic range 97 dB; ch sep 98 dB. 3-yr parts-and-labor warranty. 18 x 3¼ x 12 in; 13 lb $1,000

CC-870 101-Disc CD Changer
Bitstream D/A converter. 100-disc mechanism plus single-disc slot. 100 discs stored on linear mechanism; each CD can be stored under 1 of 10 different musical classifications; cascade and parallel remote connections allow up to 7 additional CC-870 units to operate in tandem or individually. Coaxial digital output. 30-track programming with multiple play modes; title search and category search; CD-synchro recording function. FR 5 Hz-20 kHz ±0.5 dB; THD 0.009%; S/N 100 dB; dynamic range 90 dB; ch sep 90 dB. 3-yr limited parts-and-labor warranty. 17¼ x 7 x 11 in; 13 lb $600

CC-67 5-Disc CD Changer
1-bit Bitstream D/A converter. 5-disc carousel. CDM-12 laser mechanism; 2nd-order noise shaping; quick-play mechanism. Coaxial digital output; analog output. Can change 3 discs while 1 plays; random play/repeat; peak search; tape edit; volume control; fade in/out function; remote control. FR 20 Hz-20 kHz ±0.2 dB; THD 0.0025%; S/N 110 dB; dynamic range 96 dB; ch sep 102 dB. 3-yr parts-and-labor warranty. 17 x 4¼ x 14¾ in; 16 lb $400
CC-65SE. As above with upgraded analog output stage and stiffer chassis $500

CD-67 CD Player
Dual 1-bit delta-sigma Bitstream D/A converters. CDM-12 laser mechanism with 3-beam laser and photo-diode pickup; proprietary analog-stage op-amp combining discrete output circuit in integrated package; 4th-order noise shaping; digital de-emphasis and muting; digital drive servo. Gold-plated

analog output; coaxial and fiber-optic digital outputs. Tape edit; peak search; 30-track programming; display with dimmer; remote with volume control. FR 5 Hz-20 kHz ±0.5 dB; THD 0.0025%; S/N 104 dB; dynamic range 96 dB; ch sep 102 dB. 3-yr parts-and-labor warranty. 16½ x 4 x 12 in $400

CC-48 5-Disc CD Changer
1-bit Bitstream D/A converter. 5-disc carousel. CDM-12 laser mechanism; 2nd-order noise shaping. coaxial digital output. Can change 3 discs while one plays; 32-track programming; random play; repeat play; tape edit; peak search; variable output level; remote control. FR 5 Hz-20 kHz ±0.5 dB; THD 0.0025%; S/N 106 dB; dynamic range 96 dB; ch sep 100 dB. 3-yr parts-and-labor warranty. 17⅜ x 4¼ x 15 in $280

CD-48 CD Player
Differential Bitstream D/A converter. Philips CDM-12.1 holographic laser module with digital servo control. Coaxial digital output; headphone jack with volume control. 30-track programming; shuffle play; 4 repeat modes; 10-sec intro scan; tape edit recording function; fade in/out functions; digital peak search; 20-key infrared remote control. FR 5 Hz-20 kHz ±0.5 dB; THD 0.004%; S/N 100 dB; dynamic range 96 dB; ch sep 94 dB. 3-yr limited parts-and-labor warranty. 17¼ x 3½ x 11 in; 7 lb $230

MARK LEVINSON

Model 30.6 D/A Converter
24-bit D/A converter. 96-kHz/24-bit processing capability; data reclocking system; two towers, each containing analog circuitry for one channel with isolation from digital circuitry; HDCD decoding. 4 AES/EBU, 2 coaxial, and 2 optical digital inputs; 1 analog, 1 optical, and 2 AES/EBU outputs. Digital tone control $16,950

Model 31.5 CD Transport
Top loading design; upgradable. AES/EBU, coaxial, ST and Toslink optical digital outputs ...$9,495

Model 39 CD Player
20-bit D/A converter. All-metal drawer mechanism. Variable-level analog outputs; digital input and output. Remote control $5,995

Model 360 D/A Converter
24-bit D/A converter. 96 kHz processing; reclocking system; HDCD decoding. 1 ST and 1 Toslink optical, 1 RCA, 1 BNC, 2 AES/EBU digital inputs; RCA and XLR outputs. Variable output; PHAST-compatible $4,500
360S. Special-performance version $7,500

Model 37 CD Transport
All-metal front-loading drawer mechanism. AES/EBU, RCA, BNC, and ST digital outputs $3,995

MBL

Model 1611 D/A Converter
24-bit D/A converter. AES/EBU, coaxial, Toslink, and ST inputs. THD 0.0007%. 19 x 6 x 17 in $14,100

Model 1511 D/A Converter
20-bit D/A converter. AES/EBU, coaxial, Toslink, and ST digital inputs. THD 0.0007%. 17¾ x 4½ x 15¾ in $5,980

CDP1 CD Player
1-bit linear D/A converter. 16-bit linear resolution; vibration-damping system. Analog and digital outputs. Repeat modes including A-B; 3-way elapsed-time function; program and peak search; remote control. THD 0.0025%; S/N 104 dBA; dynamic range 96 dB. Black lacquer. 3-yr warranty. 17¾ x 3½ x 13⅝ in; 20 lb $1,500

MISTRAL

CD Player
Advanced differential D/A converter. Digital output. Direct track selection; remote control. S/N 100 dB; dynamic range 98 dB; ch sep 90 dB. Brushed aluminum with brass knobs. 17 x 3½ x 12 in $1,895

MITSUBISHI

M-CD500 5-Disc CD Changer
1-bit D/A converter. 5-disc carousel. 8X oversampling; 18-bit digital filter; 3-pole analog filter. Direct track access; skip and search functions; can change 4 discs while one plays; 40-track program memory; 20-track music calendar; 3 repeat modes; intro scan; random play. FR 4 Hz-20 kHz +1, –0.3 dB; THD 0.01%; S/N 97 dB; dynamic range 96 dB. 17⅛ x 4⅞ x 15⅛ in $349

MSB TECHNOLOGY

Platinum LS-2 Dual Combi-Transport
Plays CDs and laserdiscs. Accepts 2 laserdiscs at once; dual-sided play on each disc. AC-3 RF output; coaxial and optical outputs; dual analog outputs; S-video and composite-video outputs. Remote control. 18½ x 10 x 16½ in; 65 lb $5,495

Gold PS-1 D/A Converter
8-bit proprietary ladder-type D/A converter. Built-in EMA isolation plate. 1 coaxial input, 2 outputs. Phase switch. THD 0.05%; S/N 100 dB; dynamic range 100 dB. 17½ x 1⅞ x 15 in; 46 lb $3,395
XLR and either RCA or ST inputs for above ...$440

Silver CC5DA 5-Disc CD Changer
1-bit D/A converter. Can also play Photo CDs. EMA isolation base. Composite- and component-video outputs. Remote control. 18½ x 16½ x 5½ in; 51 lb $2,795
XLR analog outputs for above $200
Silver CC5. Transport version of Silver CC5DA. Coaxial, ST, and XLR digital outputs $2,295
Internal D/A converter for above $995

Silver LS-2x Combi-Player
20-bit D/A converter. Plays CDs and laserdiscs. Dual-sided play. AC-3 RF output; dual analog outputs; S-video and RCA composite outputs; optical and coaxial digital outputs. Remote control. 18½ x 6½ x 16½ in; 44 lb $1,995

The Link D/A Converter
24-bit Burr-Brown D/A converter. Sampling-rate converter for 32 kHz and 96 kHz sources; analog pass through circuit. 1 optical and coaxial digital input. FR 20 Hz-20 kHz ±0.1 dB; THD 0.0015%; S/N 100 dB; dynamic range 100 dB; ch sep 95 dB. Metallic charcoal. 17 x 1¾ x 14 in; 16 lb $299

MUSE

Two Plus D/A Converter
20-bit D/A converter. 8X oversampling filter. Coaxial digital output; AES output; I²S connector. Silver or black front panel. 3-yr-limited warranty. 17½ x 3½ x 11 in; 15 lb $2,500

Two D/A Converter
20-bit D/A converter. 8X oversampling. 2 coaxial digital outputs. AES output; ST output optional. Silver or black front panel. 3-yr limited warranty. 17½ x 3½ x 11 in; 15 lb $1,700
HDCD decoding filter for either model $300

MUSEATEX

Bidat D/A Converter
1-bit D/A converter. optical, RCA, ST, and AES/EBU inputs; RCA and XLR outputs. Volume control optional $1,999

CDD1 CD Transport
Antijitter circuitry. RCA and optical outputs. Remote control $1,749

Idat 44 D/A Converter
1-bit D/A converter. C-Lock antijitter circuitry. optical and coaxial inputs $999

MUSICAL CONCEPTS

Epoch VII Signature D/A Converter
1-bit D/A converter. DSP digital filter; 384X oversampling; Hyperfast soft-recovery rectifiers. RCA, BNC, and optical digital outputs; OFC RCA audio outputs. Full-function remote control; defeatable display lighting. THD.003%; S/N 110 dB; dynamic range 98 dB; ch sep 100 dB $1,295

CDT-4 Signature CD Transport
Turntable-type transport platter; damped chassis; Hyperfast soft-recovery diodes. 1-RCA/BNC digital output; 1 optical output; oxygen-free copper RCA digital output. Full-function remote control; defeatable display lighting. Piano-black faceplate. 17¼ x 5½ x 11 in; 13 lb $995

Epoch VII CD Player
Aluminum platter with damping pad; DSP to recreate frequencies above 20 kHz. Analog output; coaxial and optical digital outputs; gold-plated RCA jacks. Defeatable display lighting $995
CDT-4. Transport-only version of Epoch VII. Chassis and transport damping. Coaxial digital output; optical output. BNC output optional $795
Enigma VII. As Epoch VII, but less extensive digital power supply and less chassis damping $795

MUSICAL DESIGN

CD-2 Signature CD Player
1-bit D/A converter. 384X oversampling; DSP filter with 40-kHz FR; Hyperfast soft-recovery diodes; turntable-type transport mechanism. RCA/BNC coaxial digital output; optical digital output. Defeatable display lighting; remote control. FR 2 Hz-20 kHz; THD 0.003%; S/N 110 dBA; dynamic range 98 dB. Piano-black lacquer faceplate and brushed aluminum ½-in thick side panels. 17¼ x 5½ x 11 in; 17 lb $1,995

DAC-1A Signature D/A Converter
Dual 20-bit Burr-Brown D/A converters. HDCD decoder; 8X oversampling; combination passive/active analog stage. 2 RCA/BNC digital inputs; audio output. Phase switch. FR 20 Hz-20 kHz ±0.1 dB; THD 0.01%; S/N 100 dB; dynamic range 98 dB. Silver or black brushed-aluminum finish. 5-yr warranty. 15½ x 2¾ x 9 in $1,995

CD-2 CD Player
1-bit PDM D/A converter. 384X oversampling. Optical output; coaxial output. 20-track programming; remote control; illuminated LCD display. FR 20 Hz-20 kHz ±0.1 dB; THD 0.003%; S/N 100 dB; dynamic range 98 dB; ch sep 100 dB. Piano-black lacquer faceplate and ½-in-thick aluminum side panels. 17¼ x 5½ x 11 in; 17 lb $1,495

T-1 CD Transport
Hyperfast soft-recovery diodes; turntable type transport mechanism. 1 RCA/BNC coaxial digital output; 1 optical digital output. Defeatable display lighting; remote control. Piano-black lacquer faceplate and ½-in-thick brushed-aluminum side panels. 17¼ x 5½ x 11 in; 17 lb $1,295
As above with XLR output $1,395

DAC-1A20 D/A Converter
Dual 20-bit Burr-Brown D/A converters. HDCD compatible; 8X oversampling; combination passive/active analog stage. 2 RCA/BNC digital inputs. Phase switch. FR 20 Hz-20 kHz ±0.1 dB; THD 0.01%; S/N 100 dB; dynamic range 98 dB. Silver or black brushed-aluminum finish. 5-yr warranty. 15½ x 2¾ x 9 in $1,195
DAC-1A. As above, dual 18-bit converters ...$995

MYRYAD

MCD 500 CD Player
20-bit delta-sigma D/A converter. 6-pole active analog filter; DC-coupled audio stages. Coaxial digital output. 24-track programming. FR 20 Hz-20 kHz ±0.3 dB; THD 0.002%; S/N 105 dB. Black or silver. 17 x 3¾ x 11¼ in; 13 lb $2,400

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CD Components

MC 100 CD Player
1-bit D/A converter. Complementary pulse-length modulation (PLM) conversion; 32-kilobytes RAM provides wide-jitter margin and secure playing of dirty or damaged CDs; double C1 and quadruple C2 error correction; low-jitter master clock; coaxial digital output; gold-plated RCA phono sockets; My-Link system remote jack. FR 20 Hz-20 kHz ±0.3 dB; THD 0.003%; S/N 104 dB. Silver and black finish. 17 x 4 x 11 in; 12 lb $1,200

NAD

Model 5500 CD Player
20-bit D/A converter. Balanced analog circuitry; hall-effect motor for transport section; DC-coupled output with DC servo; 5 active analog filters. RCA and XLR analog outputs; AES/EBU and coaxial digital outputs. Modular D/A and analog circuitry; NAD link; remote control. FR 5 Hz-20 kHz ±0.15 dB; THD 0.002%; S/N 100 dB; dynamic range 98 dB; ch sep 128 dB at 1 kHz. Sandblasted smooth-aluminum finish. 17¾ x 2⅝ x 11¼ in $1,399

C560 CD Player
Coaxial digital output. NAD link; remote control. Classic gray $499

Model 515 5-Disc CD Changer
Bitstream D/A converter. 5-disc carousel. 8X oversampling; linear phase with 18-bit coefficients; 4-pole active analog filter. Stereo analog outputs; coaxial digital output. Can change 3 discs while 1 plays; 30-track programming; quick load; shuffle play; edit; remote control. FR 5 Hz-20 kHz ±0.4 dB; THD 0.003%; S/N 90 dB; dynamic range 90 dB; ch sep 90 dB at 1 kHz. 17⅛ x 4¼ x 15⅜ in $499

Model 523 5-Disc CD Changer
1-bit Bitstream D/A converter. 5-disc carousel. High-speed access to single disc; 8X oversampling; linear-phase digital filter; 5-pole active analog filter design. Can change 2 discs while 1 plays. THD 0.0035%; dynamic range 97 dB; ch sep 99 dB at 1 kHz. 17⅛ x 4¼ x 15 in; 15 lb $399

Model 522 CD Player
Burr Brown 20-bit delta-sigma D/A converter. Analog op-amps. RCA analog outputs. Track and time display; repeat modes; remote control. FR 5 Hz-20 kHz ±0.5 dB; THD 0.0025%; S/N 100 dB; dynamic range 96 dB; ch sep 110 dB. Classic gray. 17⅛ x 2¾ x 11¼ in; 9 lb $299

NAIM

NA-CDX CD Player
Dual 20-bit D/A converter. Front loading; HDCD compatible; upgradable design. Remote ...$4,250
NA-XPS. Power supply for upgrade $4,000

NA-CD3-5 CD Player
Front-loading design. Remote control $2,150

NAKAMICHI

MB-10 5-Disc CD Changer
Dual 24-bit D/A converters. 5-disc carousel. Analog output; optical and coaxial digital outputs; headphone jack with volume control. Random play; disc and track memory; remote control. FR 5 Hz-20 kHz; THD 0.003%; S/N 100 dB; ch sep 90 dB $399

ONIX

CD33 CD Player
1-bit D/A converter. Audio output stages with discrete transistors. Remote. 17 x 3 x 13 in ...$2,195

ONKYO

Next-selection function refers to the ability to select the next track to play without interrupting the currently playing track. All models are compatible with Onkyo's RI-system control.

Integra DX-7911 CD Player
Dual 1-bit D/A converters. Modular classic construction; new linear motor actuator; AccuPulse Quartz System; Fine Pulse Conversion; motor-driven volume control. Optical and coaxial digital outputs; fixed and variable outputs; headphone jack with volume control. Next selection; peak search; memory reverse; time edit; fade out; 5 mode repeat play; 20-track programming. THD 0.0025%; S/N 110 dB; dynamic range 100 dB. 17⅛ x 5¼ x 14⅜ in; 23 lb $1,200

DXC-730 6-Disc CD Changer
Dual 1-bit D/A converters. 8X oversampling; Accupulse Quartz System. 1 analog output; 1 optical digital output. Can change 3 discs while 1 plays; 20-track music calendar; 202-disc custom file; intro scan; 6 repeat modes; fluorescent display; RI-system compatible; remote control. FR 2 Hz-20 kHz; THD 0.004%; S/N 98 dB; dynamic range 96 dB; ch sep 92 dB at 1kHz. Brushed-aluminum front panel. 17 x 5¼ x 17 in; 18 lb $549

DX-C540 6-Disc CD Changer
1-bit PWM D/A converter. 6-disc carousel. 8X oversampling; AccuPulse Quartz System. Analog output; optical digital output. Can change 5 discs during play; random play; next-selection function; 6 repeat modes; RI-system cassette-deck compatibility; 202-disc music file; remote control. FR 5 Hz-20 kHz; THD 0.005% at 1 kHz; S/N 92 dB; dynamic range 96 dB; ch sep 92 dB at 1 kHz. Brushed-aluminum front panel. 17½ x 5¼ x 17⅛ in; 15 lb $320

DX-C340 6-Disc CD Changer
Dual 1-bit D/A converters. 6-disc carousel. Can change 5 discs while 1 plays; synchro play with compatible cassette decks; 40-track programming; random play; 6 repeat modes; next-selection function; remote control. THD 0.005%; S/N 96 dB; dynamic range 96 dB; ch sep 90 dB at 1 kHz. 18 x 4¾ x 16¾ in; 17 lb $259

DX-7211 CD Player
1-bit PWM D/A converter. AccuPulse Quartz System. Headphone jack with volume control. 5 repeat modes; peak search; RI-system compatible; CD synchro start with compatible cassette deck; remote control. FR 5 Hz-20 kHz; THD 0.004% at 1 kHz; S/N 100 dB; dynamic range 96 dB; ch sep 90 dB at 1 kHz. Brushed-aluminum front panel. 17⅛ x 3⅝ x 12⅛ in; 9 lb $230

OPTIMUS BY RADIO SHACK

CD-8400 101-Disc CD Changer
1-bit D/A converter. 101-disc carousel, single-disc tray. Low-noise/low-loss laser pickup. Optical-digital output; RCA line-level output. 32-track programming; 3 custom-mode functions; 8 repeat modes; random play; highlight scan; remote control; best-selection memory. THD 0.003%; S/N 98 dB; dynamic range 96 dB. Black. 16⅝ x 7½ x 15⅞ in; 14 lb $250

CD-8200 25-Disc CD Changer
1-bit D/A converter. 25-disc mechanism. Optical digital output. Personal file memory; random play; repeat play; intro scan; direct access; last-disc memory; memory hold; remote control. 16½ x 7½ x 12½ in $200

CD-7250 6-Disc CD Changer
1-bit D/A converter. 6-disc magazine. Delete play; 32-track programming; highlight scan; 3 repeat mode; random play; last-disc memory; fluorescent display; remote control; can also be controlled through select Optimus receiver remote controls $180

CD-3790 Portable CD Player
1-bit D/A converter. 8X oversampling; rechargeable circuit; 40-sec antishock. Headphone output jack; line-level output. Random play, repeat, and intro scan functions; backlit key and display. Operates on 2 AA batteries. Includes Y cable, AC and car-cassette adapters, and carrying pouch. Champagne finish $170

CD-8150 5-Disc CD Changer
Dual 1-bit linear D/A converter. 5-disc carousel. 4X oversampling; 3-beam laser pickup; 2-dimensional parallel-lens drive system. 32-track programming; intro scan; audible search; random play; shuffle play; repeat play; can change two CDs during play; remote control. THD 0.02%; S/N 90 dB; dynamic range 84 dB; ch sep 85 dB. Black. 17⅛ x 4½ x 14¾ in; 12 lb $170

CD-8100 5-Disc CD Changer
1-bit D/A converter. 5-disc carousel. Random play; repeat play; change 2 discs during play; 32-track programming; fluorescent display; remote control $150

CD 3720 Portable CD Player
1-bit D/A converter. 4X oversampling; 10-sec antishock buffer. Headphone jack; 4.5-V DC input. LCD display; repeat and random play; intro scan. Operates on 2 AA batteries. Includes Y cable. THD 0.06%; S/N 86 dB; dynamic range 86 dB; ch sep 70 dB. Black. 5⅜ x 1⅛ x 5½ in $80

PANASONIC

Portable CD Players
The following have a 1-bit MASH D/A converter and include an AC adapter and headphones. They feature resume-play and random-play modes, repeat/skip/search and memory/recall keys, a key-hold switch, and heat-resistant bodies.

SL-SW515 Portable CD Player
Virtual Motion Sound System (VMMS); 40-sec antishock memory; 20-hr play with antishock memory; bass-boost system. Operates on 2 AA batteries. Includes rechargeable batteries. 5⅜ x 1¼ x 6 in; 11 oz $200

SL-SW505 Portable CD Player
40-sec antishock memory; 20-hr play with antishock memory; extended bass system; water-resistant; built-in battery recharger; dual-lock system with lock indicator. Operates on 2 AA batteries. Includes rechargeable batteries. 5⅜ x 1¼ x 6 in; 11 oz $170

SL-SX500 Portable CD Player
40-sec antishock memory; 52-hr play with antishock memory; built-in battery recharger; Star circuitry. Slide-system full-open cover; battery indicator on LCD. Operates on 2 or 4 AA batteries. Includes headphones with detachable 3-key remote, Ni-Cd 1000mAh rechargeable batteries, and rechargeable battery case. 5⅛ x 1 x 5⅜ in; 9 oz $150

SL-S232 Portable CD Player
10-sec antishock memory; 20-hr play; extended bass system; built in battery recharger. backlit LCD; one-push full-open top cover; wireless remote control. Operates on 2 AA batteries. Includes rechargeable batteries. Includes car-power adapter and car-cassette adapter. Metallic silver finish. 5⅛ x 1⅛ x 5¾ in; 8 oz $140

SL-SW405 Portable CD Player
10-sec antishock memory; 12-hr play; extended bass system; water-resistant; built-in battery charger. Headphone jack. Backlit LCD; dual lock system. Operates on 2 AA batteries. Includes rechargeable batteries. Metallic silver finish. 5¼ x 1¼ x 6 in; 11 oz $140

SL-S231C Portable CD Player
10-sec antishock memory; 20-hrs play; extended bass system. One-push full-open top cover. Operates on 2 AA batteries. Includes rechargeable batteries. Includes car power adapter and car cassette adapter. 5⅛ x 1⅛ x 5¾ in; 8 oz $120

SL-SX300 Portable CD Player
48-hr play; 10-sec antishock memory; built-in bat-

tery charger. Slide-system full-open top cover. Operates on 2 AA batteries. Includes rechargeable batteries. Includes rechargeable batteries, rechargeable battery case, and battery case. Metallic silver finish. 5⅛ x 1 x 5¾ in; 9 oz $120

SL-S235 Portable CD Player
10-sec antishock memory; 20-hr play; built-in battery recharger. One-push full-open top cover. Operates on 2 AA batteries. Includes rechargeable batteries. Metallic silver finish. 5⅛ x 1⅛ x 5¾ in; 8 oz $100

SL-S201C Portable CD Player
3-sec antishock memory; extended bass system; built-in battery recharger. One-push full-open top cover. Operates on 2 AA batteries. Includes rechargeable batteries, car-power adapter, and car-cassette adapter. 5¼ x 1⅛ x 5¾ in; 8 oz $90

SL-S230 Portable CD Player
10-sec antishock memory; 20-hr play; built-in battery recharger. One-push full-open top cover. Operates on 2 AA batteries. Includes rechargeable batteries. 5⅛ x 1⅛ x 5¾ in; 8 oz $90

SL-S205 Portable CD Player
3-sec antishock memory; 10-hr play; built-in battery recharger. One-push full-open cover. Operates on 2 AA batteries. Rechargeable batteries optional. 5⅛ x 1⅛ x 5¾ in; 8 oz $80

SL-S200 Portable CD Player
3-sec antishock memory; 10-hr play; built-in recharger. One-push full-open top cover. Operates on 2 AA batteries. Includes rechargeable batteries. 5⅛ x 1⅛ x 5¾ in; 8 oz $70

PARASOUND

D/AC-2000 D/A Converter
UltraAnalog D20400-A 20-bit D/A converter. HDCD decoding; AES-21 digital input receiver; PMD-100 HDCD filter; analog op-amps. Two coaxial digital inputs; ST and AES/EBU digital inputs; RCA and XLR outputs. FR 0 Hz-20 kHz; THD 0.0015%; ch sep 104 dB $1,995

C/DC-1500 5-Disc CD Changer
Hybrid 1-bit/18-bit Burr-Brown PCM-67P ladder D/A converter. 5-disc carousel. Mechanically damped chassis. Coaxial digital output; gold-plated connectors; external remote-control connector. Can change 2 discs while one plays; music calendar; remote control. FR 3 Hz-20 kHz; THD 0.002%; S/N 110 dB; ch sep 115 dB. 19 x 4⅛ x 15¼ in $650

C/DP-1000 CD Player
Hybrid 1-bit/18-bit Burr-Brown PCM-67P ladder D/A converter. Mechanically damped chassis. Coaxial digital output; gold-plated connectors; external remote-control connector. Remote control. FR 3 Hz-20 kHz; THD 0.002%; S/N 110 dB; ch sep 115 dB. 19 x 3¼ x 10 in $495
ADAM. Upgrades C/DP-1000 or C/DC-1500 to add ST fiber-optic and balanced-AES/EBU XLR outputs $225

PASS LABORATORIES

D1 D/A Converter
20-bit D/A converter. MOSFET circuitry; 8X oversampling; zero-feedback current-to-voltage converter. RCA analog output; AES/EBU output; optical output; ST output. Input-selection control; phase control; level meter. FR 10 Hz-20 kHz ±0.52 dB; THD 0.01%; S/N 135 dB; dynamic range 120 dB; ch sep 90 dB. 3-yr warranty. 17 x 3½ x 11½ in; 35 lb $5,000

PHILIPS

CDC751 5-Disc CD Changer
Bitcheck D/A converter. Gold-plated headphone jack with volume control. Can change 3 discs during play; peak search; auto fader; edit compile with auto space; 6-character fluorescent display; full random play; 30-track programming. 17 x 4 x 15 in; 16 lb $179

Parasound D/AC 2000 D/A converter

PHILIPS MAGNAVOX

CDC735 5-Disc CD Changer
1-bit D/A converter. 8X oversampling. Can change 2 discs during play; auto search; audible music search; sequence programming; 6-character fluorescent display; repeat play; 27-button remote control. 17 x 4 x 11 in; 11 lb $99

Portable CD Players
The following feature 6-digit LCD readouts,audible search, and auto power-off.

AZ7583 Portable CD Player
1-bit D/A converter. 12-sec ESP; 12-hr play; heat- and scratch-resistant cabinet. 99-track programming; bass boost; next/previous track search; repeat and resume play; rotary volume control. Operates on 2 AA batteries. Includes car accessories; AC/DC adapter; headphones. 5⅛ x 5½ x 1⅛ in; 8 oz $149

AZ7483 Portable CD Player
1-bit D/A converter. 25-sec ESP; 12-hr play; heat and scratch resistant cabinet. 99-track programming; bass boost; next/previous track search; repeat and resume play; rotary volume control. Operates on 2 AA batteries. Includes car accessories; AC/DC adapters; headphones. 5⅛ x 5½ x 1⅛ in; 8 oz $119

AZ7356 Portable CD Player
3-sec ESP; built-in battery recharger; dynamic bass-boost system. 25-track programming; shuffle play; resume; hold switch; operates on 4 AA batteries. Includes car accessories. 5¼ x 1¼ x 6¼ in $110

AZ7383 Portable CD Player
1-bit D/A converter. 12-sec electronic skip protection (ESP); 12-hr play; heat- and scratch-resistant cabinet. 99-track programming; bass boost; next/previous track search; repeat and resume play; rotary volume control. Operates on 2 AA batteries. Includes car accessories; AC/DC adapter; headphones. 5⅛ x 5½ x 1⅛ in; 8 oz $99

AZ7351 Portable CD Player
3-sec ESP; built-in battery recharger; dynamic bass-boost system. 25-track programming; shuffle play; resume play; hold switch; operates on 4 AA batteries. 5¼ x 1¼ x 6¼ in $90

AZ7181 Portable CD Player
15-track programming; 14-hr play; heat resistant cabinet. Bass boost; next/previous track search; repeat, random, and resume play; rotary volume control. Operates on 2 AA batteries. 5⅛ x 5½ x 1⅛ in; 8 oz $60

PINK TRIANGLE

Litaurel CD Player
1-bit D/A converter. S-DOT and digital time log conversion (DTLC) for optimum performance; HDCD and 20-bit Burr-Brown digital filters; on-board D/A converter yields output jitter lower than 5 picoseconds. BNC digital output; XLR and RCA outputs. Phase-reverse and filter selection; timing and drawer open/close functions; remote control. FR 20 Hz-20 kHz ±0.1 dB; THD 0.005%; S/N 100 dB; dynamic range 110 dB. Black anodized finish. 17 x 4 x 14 in; 16 lb $3,695

Numeral CD Player
Bitstream continuous-calibration D/A converter. 128X oversampling; 20-bit digital filter; drawer-type transport; reclocking circuitry for master-clock performance with other Pink Triangle components. BNC input; BNC digital output; XLR and RCA analog outputs. Timing and drawer open/close functions; remote control. FR 20 Hz-20 kHz ±0.1 dB; THD 0.007%; S/N 90 dB; dynamic range 105 dB. Black anodized finish. 17 x 4 x 14 in; 15 lb $1,995

Cardinal CD Transport
3-beam laser-pickup system with ultra-low jitter transport; digital clock input for master-clock function of external Pink Triangle converters. BNC input; BNC digital output. Remote control. Black anodized finish. 17 x 4 x 14 in; 12 lb $1,695

PIONEER

Pioneer's Legato Link circuitry is said to extend frequency response above 20 kHz.

Elite PD-65 CD Player
1-bit D/A converter. Stabilized-platter disc-drive mechanism with aluminum platter; disc clamper; brushless spindle motor; Legato Link; Class A FET buffer amp; noise shaper; antiresonant honeycomb chassis; motor-driven volume control. Fiber-optic and coaxial digital outputs. Synchro play with compatible cassette decks; remote control $800

CLD-D606 Combi-Player
1-bit D/A converter. Direct-CD mode with independent CD tray within laserdisc tray; 8-bit digital field memory for special effects; 3-line comb filter. 2 mic inputs; 2 S-video outputs; optical digital output. Dual-side play; one-touch karaoke; digital key control; mic-level controls; tape edit; intro/highlight scan; on-screen displays; compatible with RS-system remote control with jog/shuttle. Includes mic. FR 4 Hz-20 kHz; THD 0.0035%; S/N 115 dB; dynamic range 96 dB. 16⅝ x 5¼ x 15⅞ in $750

CLD-D406 Combi-Player
1-bit D/A converter. Plays CDs and laserdiscs. Digital video processing; digital timebase corrector; independent CD tray. 2 audio and video outputs; optical digital output; Dolby Digital RF output. Dual-side play; last memory with review mode; random play; highlight/intro scan; display-off switch; remote control. FR 4 Hz-20 kHz; S/N 102 dB. 16 x 5 x 16⅛ in $600

Elite PD-59 CD Player
1-bit D/A converter. Stabilized-platter disc-drive mechanism with aluminum platter; disc clamper; brushless spindle motor; Legato Link; antiresonant honeycomb chassis. Optical and coaxial digital outputs. Synchro play with compatible cassette decks; remote control $545

CD Changers
Elite PD-F07 101-Disc CD Changer
1-bit Pulseflow D/A converter. 100-disc mechanism plus single-disc slot. Legato Link; roulette rack sys-

tem; honeycomb chassis. Analog and digital inputs; optical and coaxial digital outputs; RCA analog output; headphone jack with volume control. 36-track programming; 8 repeat modes; last-disc memory; automatic digit-level control (ADLC); remote control. THD 0.003%; S/N 105 dB; dynamic range 96 dB. Urushi finish. 16⅝ x 7½ x 15¾ in; 14 lb . . .$500

PD-F1007 301-Disc CD Changer
1-bit direct linear D/A converter. 301-disc carousel. Analog RCA output; optical digital output. Custom filing mode; best selection memory; CD Text; title input; full-function remote control; dot-matrix display; single CD slot. FR 2 Hz-20 kHz; THD 0.003%; S/N 98 dB; dynamic range 96 dB. Black $475

Elite PD-F79 51-Disc CD Changer
1-bit Pulseflow D/A converter. 50-disc mechanism plus single-disc slot. Legato Link. Headphone output with volume control; optical and coaxial digital outputs. Best-selection memory; highlight scan; program, random, and repeat play; last-disc memory; auto power-on/power-down/eject; previous-disc scan; memory back-up; remote control. Includes holder for CD booklets. S/N 105 dB; dynamic range 96 dB. Urushi finish $450

PD-F957 101-Disc CD Changer
1-bit direct linear D/A converter. 101-disc carousel. Analog output; optical digital output. CD Text; CD title input; best selection memory; 108-track programming; full-function remote control. FR 2 Hz-20 kHz; THD 0.003%; S/N 98 dB; dynamic range 96 dB. Black. 16⅛ x 7⅝ x 15⅞ in; 15 lb $365

Elite PD-F59 26-Disc CD Changer
1-bit Pulseflow D/A converter. 25-disc mechanism plus single-disc slot. Legato Link. Headphone output with volume control; optical- and coaxial digital output. CD-deck synchro; custom-file function; best-selection memory; highlight scan; program, random, and repeat play; last-disc memory; auto power-on/power-down/eject; previous disc scan; remote control; compatible with SR-system remote control. Includes holder for CD booklets. S/N 105 dB; dynamic range 96 dB. Urushi finish $345

Elite PD-M59 6-Disc CD Changer
1-bit D/A converter. 6-disc magazine. Antiresonant honeycomb chassis; Legato Link. Optical digital output. Highlight scan; random play; digital level control; remote control $330

PD-F907 101-Disc CD Changer
1-bit direct linear D/A converter. 101-disc carousel. Analog output; optical digital output. Best-selection memory; remote control; 108-track programming; custom filing mode; last disc memory. FR 2 Hz-20 kHz; THD 0.003%; S/N 98 dB; dynamic range 96 dB. Black. 16⅛ x 7⅝ x 15⅞ in; 15 lb $310
PD-F807. As above, no remote control $260

PD-AP1 CD File Controller
Connect up to three PD-F1006 or PD-F906 CD file changers. Random play of tracks; jog dial for input/search; CD Deck synchro $260

PD-F607 25-Disc CD Changer
1-bit direct linear D/A converter. 25-disc vertical rack. Analog RCA output; optical digital output. CD Text-compatible; full-function remote control; last disc memory; best selection memory. FR 2 Hz-20 kHz; THD 0.003%; S/N 98 dB; dynamic range 96 dB. Black. 16⅝ x 7⅝ x 12⅝ in; 11 lb $260
PD-F507. As above without CD Text $245
PD-F407. As above, no remote control $225

PD-M426 6-Disc CD Changer
1-bit D/A converter. 6-disc magazine. Highlight scan; last-disc memory; remote control $245
PD-M406. As above, no remote control $235

POLYFUSION AUDIO

Model 905 D/A Converter
20-bit D/A converter. 8X oversampling; Pacific Microsonics PMD-100 HDCD decoder; direct-drive mechanism; digital signal conditioning/jitter reduction; differential input circuitry; Class A MOSFET output stages. RCA and BNC coaxial inputs; 2 ST optical inputs; XLR and RCA outputs. Input-selector switch; volume control; automatic/manual mute selector; balance control; output level control; inverted/normal output switch. Includes Model 335 DC power supply. FR 10 Hz-20 kHz ±0.2 dB; THD 0.01%; S/N 104 dB; ch sep 100 dB at 1kHz. Anodized aluminum in black, silver, and gold. 3-yr warranty. 19 x 2⅛ x 13 in; 7 lb $4,250

Model 805 D/A Converter
20-bit D/A converter. 8X oversampling; Pacific Microsonics PMD-100 HDCD decoder; digital signal conditioning/jitter reduction; differential input circuitry. Differential input; RCA and BNC coaxial inputs; 2 ST optical inputs; 1 RCA output. Automatic mute; input-selector switch; output-level control; auto frequency select with lock indicator. Includes Model 335 DC power supply. FR 10 Hz-20 kHz ±0.2 dB; THD 0.01%; S/N 104 dB; ch sep 100 dB at 1 kHz. Anodized aluminum in black, silver and gold. 3-yr warranty. 19 x 2⅛ x 13 in; 6 lb . . .$3,250

Model 920 CD Transport
Philips CDM-9 PRO mechanism; low-jitter signal processing; differential data transmission output; RCA coaxial output; ST optical output; differential output. Direct track-access selectors on front panel; 100-disc favorite-track programming; infrared remote control. Includes Model 335 DC power supply. Anodized aluminum in black, silver, and gold. 3-yr warranty. 19 x 3⅛ x 13 in; 8 lb . . .$2,900

PROCEED

CDP CD Player
18-bit D/A converter. Front-loading design; all-metal drawer. Coaxial and optical digital inputs; coaxial digital output; RCA and XLR analog outputs; Remote control with volume control. FR 10 Hz-20 kHz +0, –0.2 dB; THD 0.005% at 1 kHz; S/N 105 dB; dynamic range 98 dB; ch sep 110 dB. 34 lb $3,495

CDD CD Transport
Front-loading design; all-metal drawer mechanism. AES/EBU, SPDIF, ECA, and BNC digital outputs. Custom programs; remote-control capability. ST fiber-optic digital output optional $2,495

Rotel RCC 945 carousel CD changer

DAP D/A Converter
18-bit D/A converter. HDCD decoding; isolation between digital sources. AES/EBU, RCA, BNC, optical ST optical digital inputs; coaxial digital output; RCA and XLR analog outputs. Remote-control capability. FR 10 Hz-20 kHz +0, –0.2 dB; THD 0.005% at 1 kHz; S/N 105 dB; dynamic range 98 dB; ch sep 110 dB. 25 lb $1,995

REVOX

E-426/Exception CD Player
1-bit delta-sigma D/A converter. Top-loading design; 256X oversampling; Philips 12.2 transport with hall-effect motor. RCA and BNC digital outputs; RCA and XLR analog outputs. Remote control. Includes balanced cables. FR 20 Hz-20 kHz ±0.2 dB; THD 0.003%; S/N 100 dB; dynamic range 106 dB; ch sep 100 dB. 19 x 5 x 16 in; 18 lb $4,500

S22 Elegance CD Player
Bitstream D/A converter. Continuous-calibration D/A converter; 20-bit digital filter; Philips 12.2 transport. RCA digital output; stereo-analog output. Phase switch; digital output on/off; timing functions; drawer open/close functions; remote controlled programming. FR 20 Hz-20 kHz ±0.1 dB; THD 0.003%; S/N 90 dB; dynamic range 105 dB; ch sep 100 dB. Black or silver brushed-aluminum finish. 17 x 4 x 14 in; 9 lb $995

ROTEL

RCD 991 CD Player
Dual Burr-Brown D/A converters. HDCD digital filter. XLR and RCA analog outputs; coaxial and optical digital outputs. Tunable dither modes; display brightness control; output phase control; remote control. FR 5 Hz-20 kHz ±0.5 dB; THD 0.0035%; S/N 115 dB; dynamic range 100 dB; ch sep 110 dB. 18½ x 4¾ x 14¼ in $1,300

RCD 971 CD Player
Dual 20-bit D/A converters. HDCD filter; center-loading mechanism. 2 RCA analog outputs; 1 coaxial digital output. Repeat and scan functions; program file; shuffle function; remote control. FR 5 Hz-20 kHz ±5 dB; THD 0.0035%; S/N 115 dBA; dynamic range 100 dB; ch sep 110 dB at 1 kHz. Black. 17⅜ x 3⅜ x 12 in; 17 lb $700

RCC 945 6-Disc CD Changer
Dual 1-bit D/A converters. 6-disc magazine. Analog and digital outputs. Random/repeat play; scan; 16-track programming; remote control. FR 20 Hz-20 kHz ±0.8 dB; THD 0.01%; S/N 96 dB; dynamic range 93 dB. 17⅜ x 4¾ x 11¾ in $500

RCD 951 CD Player
Dual 20-bit co-linear D/A converters. HDCD filter/decoder. 2 RCA analog outputs; 1 coaxial digital output. Program, random and repeat plays; intro scan; remote control. FR 5 Hz-20 kHz ±0.5 dB; THD 0.0035%; S/N 115 dBA; dynamic range 100 dB; ch sep 110 dB. Black. 17⅜ x 3⅜ x 12 in; 15 lb . . .$500

RCC-935 5-Disc CD Changer
1-bit PWM D/A converter. 5-disc carousel. 4X oversampling; delta-sigma noise shaper. Can change discs during play; 32-track programming; random play; repeat play; intro scan; remote control. FR 20 Hz-18 kHz ±3 dB; THD 0.02%; S/N 96 dBA; ch sep 95 dB. Black. 17⅜ x 4⅜ x 14¾ in; 11 lb $350

RCD-930AX CD Player
Dual 1-bit D/A converters. 2nd-order delta-sigma noise shaping. 21-track programming; random play; repeat play; remote control. FR 20 Hz-20 kHz ±0.8 dB; THD 0.01%; S/N 90 dB; dynamic range 90 dB; ch sep 90 dB. 17⅜ x 2⅞ x 12 in $300

SHERWOOD

Newcastle CD-980 CD Player
Dual Burr-Brown PCM63P-K 20-bit D/A converters. 8X oversampling digital filter; 3-beam laser

pickup. Optical digital output; coaxial digital output; headphone output with volume control; gold-plated terminals. 32-track programming; random, repeat, and delete play; intro scan; track/disc peak search; tape edit/length adjustment; remaining-time and elapsed-time display; display dimmer; front-loading mechanism; remote control. FR 4 Hz-20 kHz; THD 0.001%; S/N 120 dB; dynamic range 108 dB; ch sep 95 dB. Black or titanium. 3-yr warranty. 17⅜ x 4⅜ x 15 in; 11 lb $500

CD-7080R CD Player
20-bit D/A converter. 8X oversampling digital filter; 3-beam laser pickup. RCA analog fixed-level outputs; RCA analog variable outputs; coaxial digital output; optical digital output; headphone jack. 32-track programming; A-B repeat; peak search; tape edit; disc/track repeat; remote control. FR 4 Hz-20 kHz ±0.1 dB; THD 0.001%; S/N 120 dB; ch sep 93 dB. Black. 17⅜ x 4⅜ x 15 in; 11 lb $400

Newcastle CDC-680 5-Disc CD Changer
Dual 1-bit Bitstream D/A converters. 5-disc carousel. 8X oversampling digital filter; 3-beam laser pickup. Coaxial digital output; RCA analog output; headphone jack. 32-track programming; tape-edit/size adjustment; repeat, random, and delete play; random sequential play; intro scan; A-B repeat; headphone volume control; fluorescent display; play exchange; disc loading status; music calendar; track access; display dimmer; DigiLink system; remote control with direct-track access. FR 10 Hz-20 kHz; THD 0.0025%; S/N 110 dB; dynamic range 95 dB; ch sep 93 dB. Black or titanium. 3-yr warranty. 17⅜ x 4⅜ x 15 in; 13 lb $300

CDC-5080R 5-Disc CD Changer
Dual 16-bit Bitstream D/A converters. 5-disc carousel. 8X oversampling digital filter; 3-beam laser pickup. RCA analog outputs; coaxial digital output; headphone jack. Peak search; tape edit; 32-track programming; random play; disc/track repeat; remote control. FR 10 Hz-20 kHz ±0.1 dB; THD 0.0025%; S/N 110 dB; ch sep 90 dB. Black. 17⅜ x 4⅜ x 15 in; 13 lb $250

CDC-6050R 5-Disc CD Changer
Dual 1-bit D/A converters. 5-disc carousel. Front-loading mechanism; 3-beam laser pickup. Headphone jack with volume control. Can change discs while one plays; 32-track programming; delete play; intro scan; random play; 7 repeat modes; synchro record with compatible cassette decks; tape edit; remote direct track access; timer play; music calendar; display dimmer; fluorescent display; remote control $249

SIGNATURE TECHNOLOGIES

SRd-23A CD Player
Bitstream D/A converter. Vacuum-tube output stage. Variable analog output; optical digital output; high-quality gold-plated RCA output jacks; headphone jack. Remote control. FR 2 Hz-20 kHz; THD 0.1%; S/N 105 dBA; dynamic range 95 dB; ch sep 94 dB. Black chassis with choice of hand-crafted oak or rosewood enhancements. 18¾ x 3¾ x 10¾ in; 10 lb $1,195

SONIC FRONTIERS

Processor 3 Tube D/A Converter
20-bit UltraAnalog D/A converter. 8X oversampling; hybrid current-voltage conversion; vacuum-tube output stage; Pacific Microsonics PMD-100 digital filter/HDCD decoder. AES/EBU, RCA, BNC, optical, ST-glass, and I²S interface inputs; RCA and XLR outputs. LED display of all functions. FR 20 Hz-20 kHz ±0.3 dB; THD 0.05%; S/N 108 dB; dynamic range 98 dB. Black or gold. 5-yr parts-and-labor warranty. 19 x 4½ x 12 in; 26 lb $6,999

Transport 3 CD Transport
Low jitter; top-loading transport; machined aluminum chassis; proprietary (IRIS) mechanical design. XLR AES/EBU output; ST-glass output; RCA and BNC digital outputs; I²S connector. Remote control. Silver anodized finish. 5-yr parts-and-labor warranty. 19 x 5 x 14 in; 35 lb $6,999

Player 1 CD Player
Dual 24-bit D/A converters. 8X oversampling; low-jitter design; HDCD filter/decoding; vacuum-tube output stage; servo controlled; direct-coupled output. AES/EBU, RCA, BNC, ST, and I²S digital outputs; RCA and XLR analog outputs. A-B repeat; load, search, and repeat functions; remote control. FR 20 Hz-20 kHz ±0.2 dB; THD 0.002%; S/N 115 dB; dynamic range 110 dB; ch sep 90 dB. Black or gold. 5-yr parts-and-labor warranty. 19 x 4 x 12 in; 27 lb $3,499

SONY

CDP-XA7ES CD Player
Current-pulse D/A converter. Feed-forward digital filter with 3-stage oversampling, 45-bit internal processing and 20-bit outputs; circuitry to minimize timebase errors; digital servo control for tracking, laser focus, and disc rotation; FET analog amp; copper chassis shielding; spindle motor with sapphire bearings; aluminum front panel and top plate; fixed-pickup laser-tracking assembly; frame and beam construction. Optical and coaxial digital outputs; RCA and XLR analog outputs; headphone jack. 172-disc memory for index points and delete-play selections; 32-track programming; remote direct track access; 15-track music calendar; 8 repeat modes; 3-mode music scan; manual fader; peak-level search; remote control. FR 2 Hz-20 kHz ±0.3 dB; THD 0.0015%; S/N 119 dB; dynamic range 100 dB; ch sep 110 dB. 5-yr limited warranty. 17 x 5 x 14¾ in; 33 lb $3,000

MDP-650 Karaoke Combi-Player
1-bit D/A converter. Plays CDs and laserdiscs. Proprietary tri-digital picture circuitry; digital video noise canceler; digital timebase corrector; digital comb filter for S-video outputs. 2 S-video outputs; optical digital output; mic input; headphone jack with volume control. Dual-side play; 8-bit digital video memory for freeze-frame and frame-by-frame advance for CAV/CLV laserdiscs; 1.5/2x video scan with sound; remote direct chapter/track access; CAV-frame or CLV-time search; Theater mode to defeat front-panel display and lower picture black level; last-position memory; 4 repeat modes; 5-way repeat for laserdiscs; karaoke digital echo; mic volume control; on-screen displays; jog/shuttle remote with Sony TV controls and illuminated keys. S/N 115 dB; dynamic range 99 dB. 17 x 4⅝ x 17⅛ in $799

CDP-XA20ES CD Player
Current-pulse D/A converter. Fixed pickup mechanism; 45-bit internal processing, and 20-bit outputs; direct digital synchro; antiresonant top plate and ceramic disc tray; frame and beam construction; aluminum front panel. Optical digital output; 8 complementary D/A-converter outputs; gold-plated analog outputs; headphone jack with volume control. Time, just-time, and program edit to fit tracks on given length of tape; 32-track programming; remote direct track selection; 8 repeat modes; index play; random play; delete play; 3-mode music scan; time/manual fader; peak-level search; 15-track music calendar; remote control. FR 2 Hz-20 kHz ±0.3 dB; THD 0.0023%; S/N 115 dB; dynamic range 100 dB; ch sep 110 dB. Black. 5-yr limited warranty. 17 x 4¾ x 13¾ in; 15 lb $700

CDP-XA1ES CD Player
High-density linear D/A converter. Full feed-forward digital filter with 3 stage oversampling; clamp-roller antivibration mechanism; 45-bit internal processing, and 20-bit outputs. Headphone jack with volume control; 8-complementary D/A-converter outputs. 32-track programming; 10-key direct track selection; 3-mode music scan; random play; delete play; 7 repeat modes; peak-level search; time/manual fader; 20-track music calendar; remote control. FR 2 Hz-20 kHz ±0.5 dB; THD 0.0027%; S/N 108 dB; dynamic range 99 dB; ch sep 103 dB. Black. 5-yr limited warranty. 17 x 4⅜ x 11⅝ in; 8 lb $350

CDP-XE500 CD Player
Hybrid-pulse D/A converter. 8X oversampling digital filter; digital servo control; antiresonant insulator feet. Optical digital output; line-level output. Jog dial track search; 24-track programming; 20-track music calendar; 3 play modes; 2 repeat modes; time and program edit; peak search; 3-mode music scan; time fade; timer switch. FR 2 Hz-20 kHz ±0.5 dB; THD 0.0045%; S/N 100 dB; dynamic range 98 dB; ch sep 95 dB. 17 x 3¾ x 14½ in; 7 lb $200

CDP-XE400 CD Player
Hybrid-pulse D/A converter. 8X oversampling digital filter; digital servo control; antiresonant insulator feet. Line-level output. Jog dial track selection; 24-track programming; 20-track music calendar; 3 play modes; 2 repeat modes; time and program edit; peak search; 3-mode music scan; time fade; time switch; remote compatible with Sony receivers. FR 2 Hz-20 kHz ±0.5 dB; THD 0.0045%; S/N 100 dB; dynamic range 98 dB; ch sep 95 dB. Black. 17 x 3¾ x 14½ in; 7 lb $180

CD Changers

CDP-CX90ES 200-Disc CD Changer
Current pulse D/A converter. 200-disc vertical rack. Direct digital synchro; digital servo control; feed-forward digital filter. Computer-keyboard input; optical digital output. 400-disc master control with a second 200 CD changer; on-screen disc management; CD Text; 200-disc custom file memory; S-link system interface; remote control. FR 2 Hz-20 kHz ±0.3 dB; THD 0.0025%; S/N 116 dB; dynamic range 100 dB; ch sep 110 dB. 5-yr limited warranty. 17 x 7⅜ x 19 in; 22 lb $1,100

CDP-CX270 200-Disc CD Changer
Hybrid-pulse D/A converter. 200-disc mechanism. 8X oversampling digital filter; digital servo control. IBM-PS/2 keyboard input; optical digital output; AC outlet. Graphical user interface; 400-disc master control capability; cross fade; custom file/label systems for groups, discs, tracks; delete bank; disc scan; timer switch; S-Link; jog/dial control; 3 multidisc 32-track programs; 6 play modes; 3 repeat modes; CD Text; remote control. FR 2 Hz-20 kHz ±0.5 dB; S/N 110 dB; dynamic range 99 dB; ch sep 105 dB. 17 x 17⅞ x 19 in; 20 lb $1,000

CDP-CA9ES 5-Disc CD Changer
Current-pulse D/A converter. 5-disc carousel. Direct digital synchro; feed-forward digital filter with 3-stage oversampling, 45-bit internal processing, and 20-bit outputs; aluminum front panel. Optical digital output; gold-plated analog outputs; remote-variable line-level output; headphone jack with volume control; 8 complementary D/A-converter outputs. Can change 4 discs while one plays; 172-disc Custom File memory; 8-character disc naming for display; can categorize favorite tracks into 4 groups; tape edit; remote direct track access; direct disc access; 32-track programming; 3 mode music scan; random play; peak-level search; manual fader; remote control. FR 2 Hz-20 kHz ±0.3 dB; THD 0.0023%; S/N 117 dB; dynamic range 100 dB; ch sep 110 dB. 5-yr limited warranty. 17 x 5 x 15¾ in; 17 lb $700

CDP-CX260 200-Disc CD Changer
Hybrid-pulse D/A converter. 200-disc vertical rack. Digital servo control. Computer-keyboard input; second CD input; optical digital output; S-link interface; line-level output. Jog/dial disc select; 32-track programming; 5 play modes; 3 repeat modes; custom file/label systems for groups, discs, and tracks; cross-fade play; no-delay play; manual fader; memo scan; memo search; remote control. FR 2 Hz-20 kHz ±0.5 dB; THD 0.0045%; S/N 108 dB; dynamic range 98 dB; ch sep 100 dB. Black. 17 x 7⅞ x 18⅞ in; 21 lb $660

CDP-CX70ES 200-Disc CD Changer
200-disc vertical rack. FR 2 Hz-20 kHz ±0.3 dB;

THD 0.0035%; S/N 110 dB; dynamic range 98 dB; ch sep 100 dB. Black. 5-yr limited warranty. 17 x 7⅞ x 19 in; 20 lb $650

CDP-C910 10-Disc CD Changer
1-bit D/A converter. 10-disc magazine. 45-bit digital filter; direct digital synchro. Optical digital output; remote-variable line-level output; headphone jack with volume control. Magazine compatability with Sony car CD changers; 184-disc Custom File memory for 8-character disc names, volume levels, and track programming; time, program, and link edit to fit tracks to a tape length; direct track/disc access; 3-mode music scan; random play; 7 repeat modes; 32-track programming; time/manual fader; peak-level search; timer switch; 20-track music calendar; remote control. FR 2 Hz-20 kHz ±0.3 dB; S/N 110 dB; dynamic range 100 dB; ch sep 105 dB. 17 x 5 x 14⅜ in; 14 lb $600

CDP-CA8ES 5-Disc CD Changer
Current-pulse D/A converter. 5-disc carousel. Feed-forward digital filter with 3-stage oversampling, 45-bit internal processing, and 20-bit outputs; direct digital synchro; digital servo control. Optical digital output; gold-plated analog outputs; remote-variable line-level output; headphone jack with volume control. Antiresonant aluminum front panel; can change 4 discs during play; tape edit; remote direct track access; direct disc access; 32-track programming; 3 mode music scan; manual fader; peak level search; 6 play modes; 6 repeat modes; random play; remote control. FR 2 Hz-20 kHz ±0.3 dB; THD 0.0025%; S/N 117 dB; dynamic range 100 dB; ch sep 110 dB. Aluminum front panel. 5-yr limited warranty. 17 x 5 x 15¾ in; 15 lb $550

CDP-CX240 200-Disc CD Changer
Hybrid-pulse D/A converter. 200-disc vertical rack. 8X digital oversampling; digital servo control. Optical digital output; S-link interface; computer-keyboard input; line-level output. Jog-dial disc selection; 32-track programming; 5 play modes; 3 repeat modes; disc memo display; memo scan; delete bank; custom file/label systems for groups, discs, and tracks; timer switch; cross fade; CD Text display; dot matrix display; remote control. FR 2 Hz-20 kHz ±0.5 dB; THD 0.0045%; S/N 107 dB; dynamic range 98 dB; ch sep 100 dB. Black. 17 x 7⅛ x 18⅞ in; 21 lb $480

CDP-CX255 200-Disc CD Changer
Hybrid-pulse D/A converter. 200-disc internal-storage mechanism. 8X oversampling digital filter; digital servo control; patented CD changer operation. Optical digital output. Custom file/label systems for groups, discs, and tracks; CD Text; delete bank; memo scan; disc scan; memo search; S-Link; jog/dial control; 3 multidisc 32-track programs; 3 repeat modes; remote control. FR 2 Hz-20 kHz ±0.5 dB; S/N 107 dB; dynamic range 98 dB; ch sep 100 dB. 17 x 17⅞ x 19 in; 20 lb . . .$449

CDP-CX205 200-Disc CD Changer
Hybrid-pulse D/A converter. 200-disc mechanism. 8X oversampling digital filter; digital servo control. Custom File for 8 groups; S-Link; jog/dial control; multidisc 32-track programming; 6 play modes; 3 repeat modes; remote control. FR 2 Hz-20 kHz ±0.5 dB; S/N 100 dB; dynamic range 98 dB; ch sep 95 dB. 17 x 17⅞ x 19 in; 20 lb $420

CDP-CX220 200-Disc CD Changer
Hybrid-pulse D/A converter. 200-disc vertical rack. 8X oversampling digital filter; digital servo control. Optical digital output; S-link interface; line-level output. Jog/dial disc selection; 32-track programming; 5 play modes; 3 repeat modes; block file organizes CDs into 8 areas; timer switch; CD Text display; dot matrix display; remote control. FR 2 Hz-20 kHz ±0.5 dB; THD 0.0045%; S/N 105 dB; dynamic range 98 dB; ch sep 97 dB. Black. 17 x 7⅛ x 18⅞ in; 21 lb $360

CDP-CA7ES 5-Disc CD Changer
90-MHz high-density linear D/A converter. 5-disc carousel. Feed-forward digital filter; 3-stage oversampling; 45-bit internal processing, and 20-bit outputs; digital servo control; HDCD converter; copper chassis shielding. Gold-plated analog outputs; optical digital output; 8 D/A converter outputs; line-level output; headphone jack. Can change 4 discs while one plays; tape edit; remote direct-track access; 3-mode music scan; 32-track programming; 20-track music calendar; random play; 6 repeat modes; remote control. FR 2 Hz-20 kHz ±0.3 dB; THD 0.0025%; S/N 116 dB; dynamic range 100 dB; ch sep 110 dB. 5-yr limited warranty. 17 x 5 x 15¾ in; 13 lb $350

CDP-CX210 200-Disc CD Changer
Hybrid-pulse D/A converter. 200-disc vertical rack. 8X oversampling digital filter; digital servo control. S-link interface; line-level output. Jog-dial disc selection; 32-track programming; 5 play modes; 3 repeat modes; block file organizes the CDs into 8 areas; remote control. FR 2 Hz-20 kHz ±0.3 dB; THD 0.0045%; S/N 100 dB; dynamic range 98 dB; ch sep 95 dB. Black. 17 x 7⅞ x 18⅞ in; 11 lb . . .$300

CDP-CX57 51-Disc CD Changer
Pulse-flow D/A converter. 50-disc vertical rack plus single-disc tray. 8X oversampling digital filter; pulse D/A converter. Optical digital output; S-link interface; line-level output; second CD input. Jog-dial disc selection; 32-track programming; custom file memory; disc memory display; memo scan; delete bank; cross-fade; CD Text display; 5 play modes; 3 repeat modes; dot matrix display; remote control. FR 2 Hz-20 kHz ±1 dB; THD 0.013%; S/N 107 dB; dynamic range 88 dB; ch sep 100 dB. Black. 17 x 7¼ x 11⅝ in; 11 lb $280

CDP-CE525 5-Disc CD Changer
Hybrid-pulse D/A converter. 5-disc carousel. 8X oversampling digital filter; digital servo control. Optical digital output; S-link interface; line-level output; headphone jack. Can control second changer for enhanced CD storage; cross-fade play; no-delay play; CD Text; disc and name display; custom file memory; can change 4 discs during play; 20-track music calendar; 3-mode music scan; remote control. FR 2 Hz-20 kHz ±0.5 dB; THD 0.004%; S/N 107 dB; dynamic range 98 dB; ch sep 100 dB. Black. 17 x 4¾ x 15⅝ in; 12 lb $250

CDP-CX53 51-Disc CD Changer
Pulse-flow D/A converter. 50-disc vertical rack plus single-disc tray. 8X oversampling digital filter. Optical digital output; S-link interface; line-level output. Jog dial disc selection; 32-track programming; 4 play modes; 3 repeat modes; block file organizes CDs into 5 areas plus one instant play slot; remote control. THD 0.013%; S/N 100 dB; dynamic range 88 dB; ch sep 95 dB. Black. 17 x 7¼ x 11⅝ in; 12 lb $250

CDP-CE515 5-Disc CD Changer
Hybrid-pulse D/A converter. 5-disc carousel. Digital servo control; 18-bit digital filter; direct digital synchro; off-center insulator feet; patented master controller. Optical digital output; headphone jack with volume control. Can change 4 discs while one plays; direct track/disc access; 20-track music calendar; 3 repeat modes; random play; tape edit; 3-mode music scan; peak-level search; time/manual fader; timer switch; 32-track programming; digital volume control; CD Text; delete play; disc check; S-Link; remote control. FR 2 Hz-20 kHz ±0.5 dB; S/N 107 dB; dynamic range 98 dB; ch sep 100 dB. 17 x 5 x 15⅛ in; 12 lb $249

CDP-CX55 51-Disc CD Changer
Hybrid-pulse D/A converter. 50-disc mechanism plus single-disc slot. 4X oversampling digital filter; jitter-reducing circuitry; short signal path. Proprietary auxiliary input; 1 analog output; 1 optical digital output. 32-track programming; jog/dial control; 4 play modes; 3 repeat modes; fluorescent display; proprietary master controller; proprietary cross-back play; S-Link; memo scan and search; custom file/label systems for groups, discs, and tracks; CD Text-ready. FR 2 Hz-20 kHz ±1 dB; THD 0.013%; S/N 88 dB. 17 x 7⅞ x 19 in; 11 lb $249

CDP-CE315 5-Disc CD Changer
Hybrid-pulse D/A converter. 5-disc carousel. Digital servo control; 8X oversampling. Line-level output. Jog/dial for disc/track selection; 32-track programming; 20-track music calendar; disc check; peak search; time edit; time fade; play exchange; remote control. FR 2 Hz-20 kHz ±0.5 dB; THD 0.004%; S/N 102 dB; dynamic range 98 dB. Black. 17 x 4¾ x 15¼ in; 12 lb $220

CDP-CE415 5-Disc CD Changer
Hybrid-pulse D/A converter. 5-disc carousel. 8X oversampling digital filter; digital servo control; patented master controller. Variable line-level output via digital volume control; patented auxiliary input. Can change 4 discs while 1 plays; 10-key track selection; 5-key disc selection; disc check; jog/dial track search; 32-track programming; 5 play modes; 3 repeat modes; time, program, and multidisc program edit; peak search; 3-mode music scan; time fade; auto start; no-delay play; cross-fade play. FR 2 Hz-20 kHz ±0.5 dB; S/N 102 dB; dynamic range 98 dB; ch sep 100 dB. 17 x 4¾ x 15 in; 12 lb $199

CDP-CX50 51-Disc CD Changer
Hybrid-pulse D/A converter. 50-disc mechanism plus single-disc slot. 4X oversampling digital filter; jitter-reducing circuitry. 1 analog output. 32-track programming; jog/dial control; 4 play modes; 3 repeat modes; fluorescent display; remote controllable. FR 2 Hz-20 kHz ±1 dB; THD 0.013%; S/N 88 dB. 17 x 7⅞ x 19 in; 11 lb $199

CDP-CE215 5-Disc CD Changer
Hybrid-pulse D/A converter. 5-disc carousel. 8X oversampling digital filter; digital servo control. Line-level output. Can change 4 discs during play; jog/dial direct access; 32-track programming; 20-track music calendar; disc check; peak search; time edit; time fade; remote control compatible with Sony receiver. FR 2 Hz-20 kHz ±0.5 dB; THD 0.0045%; S/N 102 dB; dynamic range 98 dB. Black. 17 x 4¾ x 15 in; 12 lb $190

Portable CD Players
The following have 1-bit D/A converters and headphone jacks, and include headphones, AC adapters, and power cords.

D-E705 Portable CD Player
Electronic shock protection; 20-hr play; slim-profile design; bass-boost system; heat-resistant lid; built-in battery recharger. MD-link digital optical output; 4.5-V DC input; line-level output. 22-track programming; 10 play modes; resume play. Operates on 2 AA batteries. Includes carrying case. FR 20 Hz-20 kHz +1, –2 dB. 4¼ x ¾ x 3 in; 7 oz .$200

D-M805 Portable CD Player
10-sec shock protection; heat-resistant case and lid. Line-level output. Battery charger for BP-DM 10/20 4.5-V DC input; illuminated keys and LCD; disc window illumination; digital bass boost; 10 play modes; 2-position auto volume limiter; remote control. Includes car battery cord and cassette adapter. 5⅛ x 1⅛ x 6¼ in; 16 oz $200

D-ES51 Portable CD Player
Electronic shock protection; 14-hr play; water resistant; bass-boost system; built-in battery recharger. 4.5-V DC input; headphone jack. 22-track programming; 10 play modes; resume play. Operates on 2 AA batteries. FR 20 Hz-20 kHz +1, –2 dB. 5½ x 1½ x 5⅞ in; 12 oz $180

D-E405 Portable CD Player
Electronic shock protection; 14-hr play; bass-boost system; built-in battery recharger. 4.5-V DC input; 4-pin remote input; headphone jack. 22-track programming; 10 play modes. Operates on 2 AA batteries. Includes rechargeable battery and headphones with remote control. FR 20 Hz-20 kHz +1, –2 dB. 5 x 1 x 5¾ in; 8 oz $150

D-E301 Portable CD Player
10-sec electronic shock protection; mechanical suspension system. Line output. Digital bass boost; 10 play modes; 2-position auto-volume limiter; resume play. Black and metallic gray. 5⅛ x 1⅛ x 6¼ in; 16 oz $140

SYMPHONIC LINE

CD-Reference CD Player
20-bit D/A converter. Digital outputs. FR 1 Hz-50 kHz. Aranya chrome. 5-yr warranty. 18 x 4 x 14 in; 70 lb $7,500

TANDBERG

TCP 4035 CD Player
18-bit D/A converter. Antivibration CD stabilizer. FR 20 Hz-20 kHz ±0.5 dB. 17¼ x 3¼ x 13¾ in; 15 lb $1,499

TEAC

VRDS-25 CD Player
Four 20-bit D/A converters. 25-bit 8X oversampling digital filter; vibration-free disc-clamping system; 3rd-order Butterworth analog filter; digital servo system. Coaxial and optical digital outputs. 20-track random programming; remote fluorescent-display on/off/dimmer control; track and index search; 3-way repeat function; time display; auto fade in/out; remote control. FR 1 Hz-20 kHz ±0.3 dB; THD 0.0015% at 1 kHz; S/N 110 dB; dynamic range 99 dB. Black brushed-aluminum finish. 17⅜ x 6 x 13⅜ in; 37 lb $2,700

VRDS-10SE CD Player
8-bit double-differential Bitstream D/A converter. 20-bit 8X oversampling; vibration-free disc-clamping system; 3rd-order proprietary analog filter. RCA analog outputs; coaxial and optical digital outputs. 20-track random/delete programming; track and index selection; 3-way repeat function; remote fluorescent display on/off/dimmer; remote control. FR 1 Hz-20 kHz ±0.3 dB; THD 0.0013% at 1 kHz; S/N 110 dB; dynamic range 99 dB. Black brushed-aluminum finish. 17⅜ x 5¾ x 13¼ in; 25 lb $2,100

VRDS-T1 CD Transport
Center-mount drive; copper-plated main chassis and rear panel. Coaxial and optical digital outputs. Track/index search; 20-track conventional/delete programming; 4 repeat modes; remote control. 17⅜ x 6 x 13¼ in $1,199

D-T1 D/A Converter
Double-differential Bitstream D/A converter. 18-bit digital filter; 3rd-order Butterworth analog filter; solid-aluminum front panel; copper main-chassis plating. 2 coaxial and 2 optical outputs. S/N 110 dB. 17⅜ x 4⅛ x 13⅛ in $900

AD-500 CD Player/Cassette Deck
Dual 1-bit D/A converters. 4X oversampling; 16-bit linear/channel D/A converter. RCA line-level inputs and outputs. Shuffle, random, and 3-way repeat play modes; intro scan; music calendar; CD-to-tape and tape-to-CD continuous play; timer play; fluorescent display; full-function remote control. FR 10-20 kHz ±5 dB; THD 0.02% at 1 kHz; S/N 90 dB. Ebony. 17⅛ x 5¾ x 11½ in; 12 lb $389

PD-X100 101-Disc CD Changer
1-bit D/A converter. 100-disc mechanism plus single-disc slot. 8X oversampling digital filter; disc categorizing; 32-selection random memory programming; intro scan; music skip; shuffle play; 6 repeat play modes; 38-key remote control; title, title display, and title search capabilities; 3-in CD play. 3-beam laser pickup optional. FR 20 Hz-20 kHz ±0.5 dB; THD 0.7% at 1 kHz; S/N 95 dB; ch sep 90 dB at 1 kHz. 17½ x 7¼ x 14 in; 18 lb $389

PD-D2400 5-Disc CD Changer
Dual 16-bit D/A converters. 5-disc carousel. Front-loading mechanism; 18-bit 8X oversampling digital filter; 3-beam laser pickup. Headphone jack with volume control. Intro scan; 32-track programming; random play; 2 repeat modes; music calendar; 7-digit fluorescent display; Teac UR-system remote control. FR 5 Hz-20 kHz ±1 dB; S/N 100 dB; ch sep 85 dB at 1 kHz. 17⅛ x 4⅜ x 14¾ in $249

CD-P1120 CD Player
16-bit D/A converter. Center-mounted mechanism; double-resolution digital filter; high-resolution 3-beam laser pickup. Headphone jack with level control. 16-track programming; operation mode indicators (play/pause, program); 6-digit LCD; 3-way repeat; Teac unified remote control. FR 20 Hz-20 kHz ±1 dB; THD 0.8% at 1 kHz; S/N 90 dB; dynamic range 90 dB; ch sep 80 dB at 1 kHz. 17⅛ x 3⅜ x 11 in; 9 lb $189

TECHNICS

The following CD changers feature delete play, spiral play (plays the first track from each disc, then the second from each disc, and so on), 32-track programming, random play, 4 repeat modes, and 1-bit MASH D/A conversion.

SL-PS770D CD Player
Digital servo system; antivibration chassis; center-mount transport. Optical digital output; headphone jack with volume control. Time fade; peak-level search; illuminated play buttons; 10-key direct access; 20-track programming; fluorescent display; auto cue; remote control. FR 2 Hz-20 kHz +0.3, –0 dB; THD 0.0023%; S/N 115 dB; dynamic range 100 dB. 17 x 4½ x 11½ in; 13 lb $400

SL-MC6D 61-Disc CD Changer
60-disc mechanism plus single-disc slot. Digital servo system; front-loading mechanism; easy-access disc-replacement system. Direct program and ID scan; single, program, random, and repeat play modes; group play function with 14 preset musical genre names; remote control. FR 2 Hz-20 kHz ±1 dB; THD 0.007%; S/N 100 dB; dynamic range 92 dB. 17 x 6¾ x 15¼ in; 14 lb $300

SL-MC70 61-Disc CD Changer
60-disc mechanism plus single-disc slot. Digital servo system; quick-play mechanism. Group play function with 14 preset musical genre name; direct program and ID scan; remote control. Includes notebook for filing CD liner notes. FR 2 Hz-20 kHz ±1 dB; THD 0.007%; S/N 100 dB; dynamic range 92 dB. 17 x 6¾ x 15¼ in; 12 lb $230

SL-PD988 5-Disc CD Changer
5-disc carousel. Digital servo system. Quick load; auto cue; disc-location display; ID scans; random play with delete programming; pitch control ±12.5%; remote control. FR 2 Hz-20 kHz ±1 dB; THD 0.007%; S/N 100 dB; dynamic range 92 dB. 17 x 5 x 14⅞ in; 14 lb $230

SL-MC3 61-Disc CD Changer
60-disc mechanism plus single-disc slot. Front-loading mechanism. CD Text search; text edit function; telephone style 10-key pad; quick load; quick single play; group play function with 14 preset musical genre name; direct program and ID scan; LED display; remote control. Includes notebook for filing CD booklets. THD 0.007%; S/N 100 dB; dynamic range 92 dB. 17 x 17 x 15½ in; 18 lb $200

SL-MC6 111-Disc CD Changer
110-disc mechanism plus single-disc slot. Digital servo system. CD Text search; telephone-style 10-key pad; quick load; group play function with 14 preset genre name; direct program and ID scan; LED display. Includes notebook for filing CD liner. FR 2 Hz-20 kHz ±1 dB; THD 0.007%; S/N 100 dB; dynamic range 92 dB. Black. 17 x 6¾ x 15½ in; 18 lb $200

SL-PD888 5-Disc CD Changer
5-disc carousel. Digital servo system; quick load mechanism. Fluorescent display; ID scan; delete programming; remote control. FR 2 Hz-20 kHz ±1 dB; THD 0.007%; S/N 100 dB; dynamic range 92 dB. 17 x 4¾ x 14⅝ in; 14 lb $180

SL-PD688 5-Disc CD Changer
5-disc carousel. Digital servo system; quick-load mechanism; fluorescent display; full random, one-disc random, and spiral play; delete programming; remote control. FR 2 Hz-20 kHz ±1 dB; THD 0.007%; S/N 100 dB; dynamic range 92 dB. 17 x 5 x 14⅝ in; 13 lb $160

SL-PG480A CD Player
Digital servo system; center-load transport. Optical digital output. Peak-level search; 20-track programming; fluorescent display; random play; auto cue; remote control. FR 2 Hz-20 kHz ±1 dB; THD 0.007%; S/N 100 dB; dynamic range 92 dB. 17 x 5⅝ x 11¼ in; 9 lb $150

THETA DIGITAL

DS Pro Generation V 96K D/A Converter
24-bit D/A converter. 96-kHz/24-bit processing capability. XLR output. Black or silver. 10-yr warranty $5,895
As above, with RCA output $4,095

DS Pro Generation V-a D/A Converter
Four 20-bit D/A converters. Pure Class A discrete analog section. 5 digital inputs; XLR and RCA outputs; summed RCA outputs. HDCD decoding optional. THD 0.002%; S/N 120 dB $5,595
As above without XLR connectors $3,795

DS Pro Basic III-a D/A Converter
Four 20-bit D/A converters. 5 digital inputs; XLR and RCA outputs; summed RCA outputs. HDCD decoding optional. THD 0.002%; S/N 120 dB $2,695

Miles CD Player
Hybrid 1-bit/18-bit D/A converter. Proprietary digital filter and jitter reduction circuitry; analog volume control. RCA and XLR analog inputs; coaxial digital input; AES/EBU and ST digital outputs. Remote control. FR 0 Hz-21 kHz ±0.1 dB; THD 0.002%; S/N 108 dB; dynamic range 108 dB. Silver or black. 3-yr electronics warranty. 19 x 4 x 14 in; 22 lb ...$2,500
As above, no XLR or ST-digital connectors ..$2,095

Jade CD Transport
Precision reclocking buffer for time-correct signal; antijitter circuitry. AES/EBU, RCA, BNC, and optical digital outputs. 24-track programming; random play; remote control. Black or silver $2,495

DS Pro Prime II-a D/A Converter
Two 18-bit D/A converters. 2 digital inputs; XLR and RCA outputs; summed RCA outputs. THD 0.002%; S/N 108 dB $1,495

Pearl CD Transport
Jitter-reduction circuitry. Coaxial output. Remote control. AES/EBU, single-mode-Laserlingue, and ST outputs optional. Silver or black. 3-yr electronics warranty. 19 x 4 x 14 in; 19 lb $1,235

DS Pro Progeny-a D/A Converter
18-bit D/A converter. 2 digital inputs. THD 0.008%; S/N 102 dB $995

Chroma 396 D/A Converter
18-bit D/A converter. HDCD decoding. 2 digital inputs. THD 0.01%; S/N 102 dB $829
As above without HDCD decoding $750

THORENS

TCD 2000 CD Player
1-bit Bitstream D/A converter. 3-point spring damping; steel case for optimum shielding. RCA analog outputs. FR 20 Hz-20 kHz ±0.2 dB; THD 0.0017%; S/N 110 dB. 8¼ x 3⅜ x 13⅜ in; 14 lb $2,500

TDA 2000 D/A Converter
Dual 1-bit D/A converters. 192X oversampling;

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Pioneer

CD Components

passive de-emphasis filter. 1 optical and 2 RCA digital inputs; 1 digital output. FR 5 Hz-20 kHz; THD 0.0009%; S/N 113 dB; dynamic range 111 dB. 8¼ x 3⅜ x 13⅜ in; 11 lb $1,800

TUBE TECHNOLOGY
Fulcrum CD Transport
Optical, BNC and AES/EBU digital outputs. Proprietary technology to improve performance with damaged CDs; remote control. Black; available in silver. 14 x 3½ x 10¾ in $1,700

ULTECH AUDIO
HDCD-10 D/A Converter
Dual 20-bit Burr-Brown PCM-1702 D/A Converters. HDCD decoder. Coaxial and optical inputs. S/N 103 dB $895

UCD-100 CD Player
Dual 20-bit Burr-Brown PCM-1702 D/A Converters. HDCD filter/decoder; 256X oversampling. 2 analog outputs; 1 coaxial digital output. Backlit display; 21-track programming; repeat mode; time display; remote control. FR 5 Hz-20 kHz ±1 dB; THD 0.001%; S/N 110 dB. Black anodized. 3-yr warranty. 17 x 5 x 14 in; 19 lb $895

VAC
CDP-1 CD Player
18-bit laser-trimmed ladder D/A converter. 8X oversampling; Class A tube output stage, HDCD filter/decoder; nonmagnetic chassis; VRDS CD mechanism. Coaxial digital output. Remote control. Standard powder coat finish; available in custom colors, wood, or leather. 5-yr warranty. 20⅞ x 7¼ x 16¾ in; 29 lb $8,290

DAC MkII Tube D/A Converter
Two dual-differential 1-bit D/A converters. Class A triode tube differential analog circuitry; passive logic. 2 coaxial digital inputs; coaxial and XLR outputs. Status-indicator tube; auto sampling-rate selection. AES/EBU inputs optional. 18 x 6 x 13½ in; 25 lb $5,490

Model 22.1 Tube D/A Converter
Laser-trimmed 18-bit Analog Devices D/A converter. HDCD decoding; Class A triode tube analog stage; nonmagnetic chassis. 2 coaxial inputs. Phase-reverse switch; auto turn-on mute; compatibility with sampling rates ranging from 28 to 50 kHz; digital and analog power indicators. 18 x 3½ x 11 in; 15 lb $2,190

WADIA DIGITAL
Wadia 860 CD Player
Jitter-reduction technology; variable analog output voltage; patented filter system; 32X oversampling rate; full D/A converter architecture provides 21-bit resolution; patented spinning mechanism; 3-beam objective glass lens pickup; aluminum-plate chassis. Optical, ST-glass, coaxial, and AES/EBU digital inputs and outputs; 1 XLR analog output; 1 RCA analog output. Digital volume control; aluminum body remote control. 17 x 6⅝ x 16⅝ in; 48 lb $7,450

Wadia 850 CD Player
Jitter-reduction technology; variable-analog output voltage; patented filter system; 32X oversampling; full differential D/A converter architecture provides true 21-bit resolution; patented spinning mechanism; aluminum-plate chassis. 1 XLR and 1 RCA analog outputs. Digital volume control; aluminum body remote control. 17 x 6⅝ x 16⅝ in; 48 lb $4,950

Model 830 CD Player
21-bit D/A converter. Jitter reduction circuits; variable analog output voltage; patented filter system; 32X oversampling; 3-beam objective glass lens pickup; hybrid aluminum-plated sheet-metal chassis. Digital volume control; remote control. Digital inputs/outputs and PhaseLink communication ports optional. 17 x 4 x 14 in; 16 lb $3,250

Wadia WT-2000 Upgrade
Upgrade kit to WT-2000 CD transport featuring PS-2 transport upgrade; Optical, ST-glass, and coaxial digital output $1,750

WOODSIDE
DVAC-18 Tube D/A Converter
DC-coupled tube amplifier with two 6SN7/6SL7 double triodes per channel. 4 coaxial digital inputs; 1 digital output; RCA outputs. Auto sampling-rate selection from 32 to 48 kHz; phase-reverse switch; LED indicator for input signal lock. 17 x 3½ x 14 in; 10 lb $2,395

YAMAHA
CDX-393 CD Player
1-bit D/A converters. Intelligent digital servo. Analog output. 20-track programming; 4-mode time display; tape edit; CD synchro start with compatible cassette deck; peak search; index search; 10-key pad on front panel; remote control. FR 20 Hz-20 kHz ±0.5 dB; THD 0.003%; S/N 105 dB; dynamic range 95 dB. 17⅛ x 3¾ x 10⅝ in; 9 lb $219

CD Changers
CDM-900 111-Disc CD Changer
1-bit D/A converter. 110-disc vertical rack plus single-disc slot. Optical digital output; analog output. Input/output control port for custom installations; 5-group, artist, and title custom-files; random and repeat plays; intro scan; index search; CD Text; remote control; daisy-chain connection for play and control of another unit. FR 2 Hz-20 kHz; THD 0.003%; S/N 106 dB; dynamic range 96 dB. Black. 17⅛ x 7 x 15¼ in; 14 lb $499

CDC-765 5-Disc CD Changer
Yamaha S-bit Plus D/A converter. 5-disc carousel. 4 D/A converters; 8X oversampling; intelligent digital servo; Pro-Bit Digital technology translates 16-bit signal to 20-bit signal for audio resolution; super-silent mechanism. Optical digital output. 40-track programming; program file; table of contents (TOC) memory; input/output control port for custom installations; synchro start; intro scan; index scan; 3-way music search; music calendar; tape edit; peak search; 10-key direct access; 33-key remote control. FR 20 Hz-20 kHz ±0.5 dB; THD 0.0025%; S/N 115 dB; dynamic range 100 dB. 17⅛ x 4¼ x 15¼ in; 17 lb $349

CDC-665 5-Disc CD Changer
Yamaha S-bit Plus D/A converter. 5-disc carousel. 4 D/A converters; 8X oversampling; intelligent digital servo; super-silent mechanism; synchro start. Analog output. 20-track programming; index search; music calendar; intro scan; tape edit; peak search; 3-level display illumination; 10-key direct access; 33-key remote control. FR 20 Hz-20 kHz ±0.5 dB; THD 0.003%; S/N 106 dB; dynamic range 96 dB. 17⅛ x 4¼ x 15¼ in; 17 lb $269

CDC-565 5-Disc CD Changer
Yamaha S-bit Plus D/A converter. 5-disc carousel. 4 D/A converters; 8X oversampling; intelligent digital servo; super-silent mechanism. Analog output. 20-track programming; synchro start; index search; 3-way music search; music calendar; intro scan; 31-key remote control. FR 20 Hz-20 kHz ±0.5 dB; THD 0.004%; S/N 102 dB; dynamic range 95 dB. 17⅛ x 4¼ x 15¼ in; 17 lb $199

Prices given are "list."
Dealer prices may vary.

Traveling through space becomes more real.

Chasing convicts becomes more real.

Girlfriend's feeling of neglect becomes more real.

She shouldn't take it personally, after all it's not like you're watching a movie on VHS. This is Pioneer DVD, which gives you an experience so powerful you can't help but be drawn into the action. With Component Video Output, you'll get greatly improved picture quality. And to ensure compatibility with present and future technology, the system is equipped with Dolby Digital and DTS Surround Sound. You will also get the highest quality audio resolution with the 96K 24 Bit Digital to Analog converter. All this and you can play CDs too. So for a price that isn't much more than your VCR's, you get a DVD player that creates sounds and images so real, actual reality will have to wait. If she can.

Pioneer

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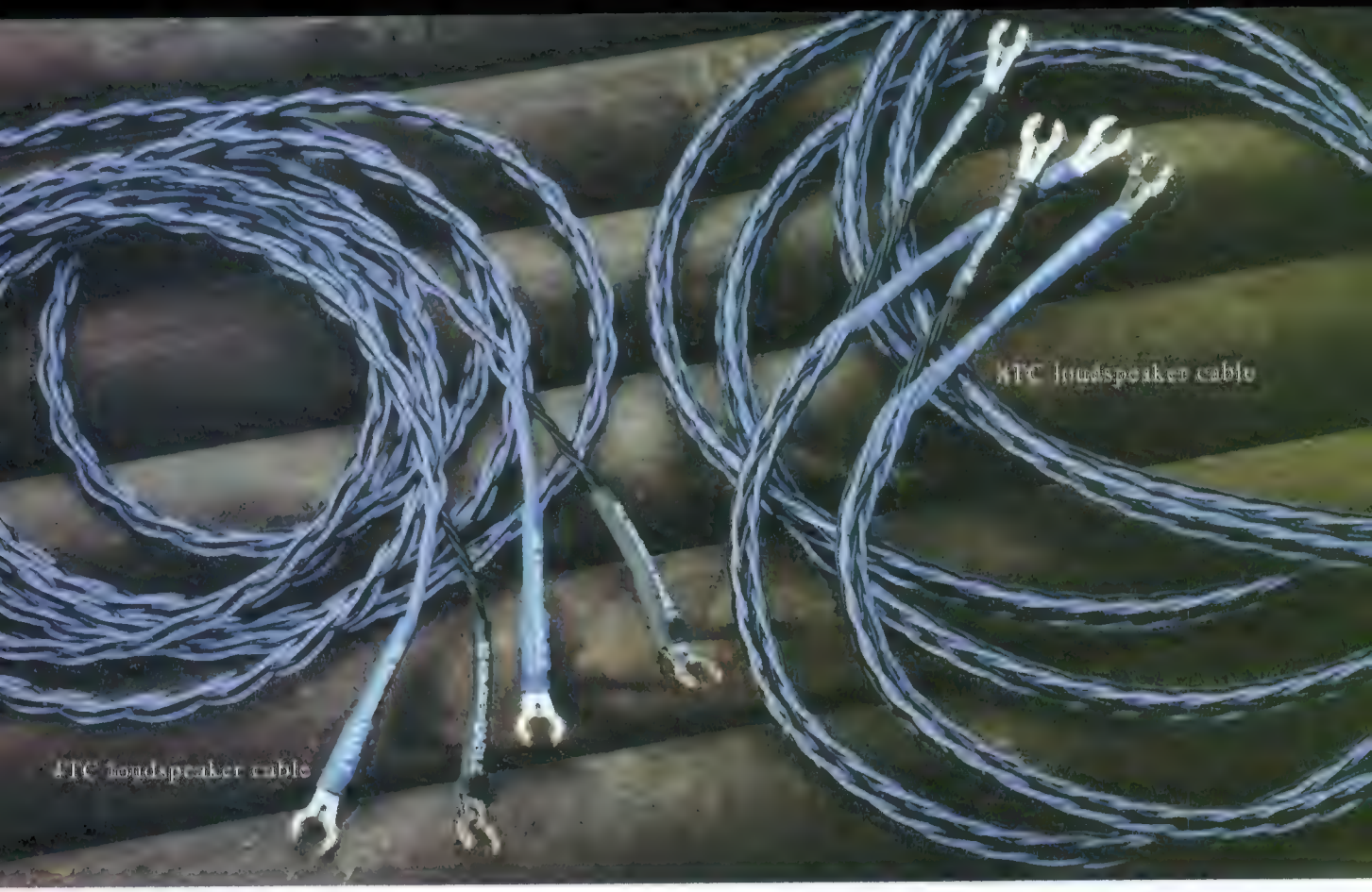
TC loudspeaker cable

"8TC - The most accurate performer"

Hi-Fi News & Record Review - Ben Duncan - February 1997 issue



The TC series loudspeaker cables use individual conductors that are Hyper-pure copper, arranged in our VariStrand™ conductor geometry. The insulating dielectric is a high pressure, low temperature extruded, Teflon™.

4TC consists of eight individual TCSS conductors, four blue and four black. Aggregate wire gauge size is two #13 conductors. The focus, transparency, and transient speed of 4TC is stunning. 4TC continues to receive enthusiastic reviews and recommendations from consumers and critics worldwide.

8TC consists of sixteen individual TCSS conductors, eight blue and eight black, arranged in a large format braid. Aggregate wire gauge size is two #9 conductors. 8TC continues to receive rave reviews and recommendations, ranking as one of the best high end audio values of all time.

4TC and 8TC are without question, the best sounding "sensible" cables on the market.

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Home Recording Equipment

Will you stick with the venerable analog cassette — or switch to a digital format?

When it comes to shopping for home recording equipment, you've got a lot of decisions to make. First off, what format do you want to use? Will it be the good ol' cassette? Or do you want to go digital with MiniDisc? How about CD recorders? There are

JVC TD-W254BK DOUBLE CASSETTE DECK

now two CD recording formats, the write-once CD-R and the rewritable CD-RW. Digital audio tape (DAT) is also still a viable alternative, although the pickins are slim. The most important factor to consider is probably where you're going to play back the recordings that you make. Will you need additional equipment to play them in your car? Or on the run? Or will you listen to them right at home where you made them?

The compact cassette is still the king of the hill when it comes to home recording equipment. Introduced in the early 1960s — and never intended for music applications — the cassette went on to become the dominant music format until it was finally surpassed by the CD in the early 1990s. Cassettes continue to be popular, and noise-reduction techniques like Dolby S have taken their performance to heights previously thought impossible.

PHILIPS CDR 880 CD RECORDER

You'll find Dolby S on the more expensive decks, the older Dolby B and C noise-reduction systems on most models.

Maybe you feel a little embarrassed to use something as "old-fashioned" as analog tape. Tape does not give you random access to your tunes the way you've grown accustomed to with CDs, so maybe you're ready to try a digital recording format.

Digital audio tape — launched in 1987 amid fierce recording-industry opposition — was never a consumer success, but it still has a loyal following, especially among musicians.

Introduced by Sony in 1992, MiniDisc (MD) is an erasable format that uses a 2½-inch disc housed in a protective caddy that resembles a shrunken computer diskette. Its small size is made possible by a data-compression system that eliminates portions of the music that are deemed inaudible. The MiniDisc's strong points are its portability, editing flexibility (tracks can be deleted, combined, divided, and moved), and disc and track titling.

Recordable CD was also introduced in 1992 — but at a hefty price of $7,000. Prices have since come down to affordable lev-

KENWOOD 1050MD MINIDISC RECORDER

els. CD-R is a nonerasable, "write-once" format that can be played back in any conventional CD player once the disc is "finalized" in the recorder. Consumer machines cannot record on blank computer CD-R discs but must use special consumer discs on which a royalty has been paid.

The CD-RW (rewritable) format is the newest home-recording kid on the block. While it doesn't offer the editing flexibility of MiniDisc, it does allow the entire disc, or part of it, to be erased and rerecorded. The major drawback of the format is that CD-RW discs will not play in all CD players because they have much lower reflectivity than CDs or CD-Rs. Also, consumer rewritable discs are about five times the cost of CD-Rs. On the other hand, CD-RW recorders can also write CD-R discs, so you can have the best of both worlds.

— Brian Fenton

DENON

The following feature Denon IS-system remote-control compatibility.

DMD-1000 MD Recorder
20-bit A/D converter. 64X oversampling; 4th-generation ATRAC audio coder; 8X oversampling digital filter; separate digital and analog circuits; 6-sec antishock memory. Analog input; 1 coaxial and 2 optical digital inputs; analog output; 1 coaxial and 1 optical digital outputs; analog RCA input. Program move, monitor, and disc recovery functions; 25-track programming; synchro record with compatible CD players; remote control. FR 4 Hz-20 kHz; S/N 105 dB; dynamic range 96. 17⅛ x 5¼ x 13⅜ in; 14 lb $599

DRM-740 3-Head Cassette Deck
Dolby B, C, HX Pro. 3 motors; die-cast aluminum-head base; closed-loop dual-capstan design; non-slip reel drive. Full-logic controls; bias control; auto tape-bias selector; record return; program search; synchro record with compatible CD players; output-level control; 4-digit linear counter; fluorescent display with peak-level meters and peak-hold. FR 20 Hz-20 kHz ±3 dB; S/N 75 dB; W&F 0.038% wrms. 17⅛ x 5 x 10¾ in; 10 lb $599

DRW-840 Double Cassette Deck
Dolby B, C, HX Pro. Autoreverse for both transports; twin/relay recording; bias control; high-speed dubbing; program search; auto relay play; CD synchro-record function. FR 20 Hz-18 kHz ±3 dB; S/N 74 dB; W&F 0.06%. 17⅛ x 5 x 10¾ in; 10 lb $399

DRM-650S Cassette Deck
Dolby B, C, S, HX Pro. 2-motor full-logic control transports. Dual power supply; manual bias-adjustment control; memory stop; CD synchro record; record return; music search; non-slip reel drive; MPX filter switch; headphone level control. FR 25 Hz-18 kHz ±3 dB; S/N 77 dB; W&F 0.055%. 17⅛ x 5 x 10¾ in; 11 lb $299

DRM-550 Cassette Deck
Dolby B, C, HX Pro. Non-slip reel drive; metal-top panel; full-logic control mechanism. Bias control; auto tape-bias selector; record return; program search; synchro record with compatible CD players; fluorescent display with peak-level meters. FR 25 Hz-18 kHz ±3 dB; S/N 74 dB; W&F 0.055%. 17⅛ x 5 x 10¾ in; 9 lb $249

DRW-580 Double Cassette Deck
Dolby B, C, HX Pro. Autoreverse for both transports; 2-tape relay play; bias control; high-speed dubbing; program search; auto tape-bias selector; two counters. FR 20 Hz-18 kHz ±3 dB; S/N 74 dB; W&F 0.08%. 17⅛ x 5¼ x 10½ in; 9 lb $249

DUAL

CC5850RC Cassette Deck
Dolby B, C, HX Pro. Bias adjustment; auto tape-type selection; next track search. Level display with peak hold; electronic counter; remote control. FR 25 Hz-16 kHz; S/N 76 dB; W&F 0.05% wrms $505
CC8065RC. As above, but S/N 74 dB, W&F 0.06% wrms $440

HARMAN KARDON

DC-520 Double Cassette Deck
Dolby B, C, HX Pro for both transports. Front-panel headphone output. High-speed dubbing; auto tape sensor; synchro-reverse dubbing; autoreverse for both transports. Includes interconnecting cables. FR 25 Hz-19 kHz metal; S/N 79 dB; W&F 0.05% wrms; THD 1% at 1 kHz. 17⅜ x 5⅞ x 11¼ in; 10 lb $329

JVC

XU-301BK MD Recorder
MD recorder with 3-disc CD changer. 1-bit A/D and D/A converters. 3 independent trays with play and exchange system for CD. Optical input and output; mic input; RCA input and output; headphone output. CD Text; 27-genre and 200-disc memory files; 3-disc random and continuous play; pitch control; CD/mic/line mixing; 5-mode editing; text CompuLink; timer record/play; remote control. Sampling rates 32/44.1/48 kHz; FR 8-20 kHz; S/N 94 dB CD, 88 dB MD; THD 0.009%; dynamic range 90 dB CD, 88 dB MD. 17¼ x 5 x 12½ in; 13 lb . . .$550

TD-W718BK Double Cassette Deck
Dolby B, C, HX Pro. Record/play on both transports; computer-controlled full-logic mechanism; 6-motor drive; cassette-shell stabilizer in both transports. Headphone jack with volume control; mic input with mix-level control. Rotating-head autoreverse for both transports; pitch control for one transport; multimusic scan; sequential play and record; synchro high-speed dubbing; auto/synchro record mute; computer-controlled auto tape-bias and sensitivity; fluorescent-level meters and 4-digit counter for both transports; blank skip. FR 20 Hz-16 kHz ±3 dB metal; S/N (metal) 78 dBA Dolby C; W&F 0.08% wrms $280
TD-W354BK. As above without headphone volume control, 2-tape sequential record, or blank skip $220

TD-R462BK Cassette Deck
Dolby B, C, HX Pro. Computer-controlled full-logic mechanism; cassette-shell stabilizer; powered cassette door. CD-direct input; headphone jack. Rotating-head autoreverse; bias control; auto record mute; music scan; timer record/play; auto tape-bias selector; input-balance control; fluorescent level meters; 4-digit fluorescent-linear counter switchable to peak display. FR 20 Hz-16 kHz ±3 dB metal; S/N (metal) 78 dBA Dolby C; W&F 0.08% wrms $250

TD-W254BK Double Cassette Deck
Dolby B, C, HX Pro. 1 record/play transport; computer-controlled full-logic mechanism. Headphone jack. Rotating-head autoreverse for both transports; 6-motor drive; 2-tape sequential play; synchro high-speed dubbing; auto/synchro record mute; auto tape-bias selector; fluorescent level meters and 4-digit counter for both transports. FR 20 Hz-16 kHz ±3 dB metal; S/N (metal) 78 dBA Dolby C; W&F 0.08% wrms $190

TD-W5TH Double Cassette Deck
Dolby B, C, HX Pro. Computer-controlled full-logic mechanism; high-speed dubbing; auto tape-type selector. Fluorescent level meters; tape counter for each transport. FR 30 Hz-16 kHz ±3 dB metal; S/N 78 dB Dolby C (metal); W&F 0.08% wrms; THD 0.8%. 15¾ x 5 x 14¼ in; 10 lb $190

KENWOOD

DMC-J7R Portable MD Recorder
ATRAC version 2.5 encoding; 10-sec digital antishock memory. Optical digital input with sampling-rate converter; mic input with phantom power. Disc and track naming; quick search; bass boost; mono extended-time recording; full-function LCD display; watch-style LCD wired remote control. Includes headphones; carrying case; lithium ion rechargeable battery; home connecting cable; AC adapter $400

Model 1050MD MD Recorder
CD Text transfer via direct digital connection; repeat play; music scan; jog-shuttle dial; remote control $400
Model 1090MD. As above, 24-bit A/D and D/A resolution; drive distortion reduction circuitry; digital record level control with auto fade $600

Model CT2050 Double Cassette Deck
Dolby B, C, HX Pro. Full-logic electronic tape transports; low-noise transport system; bidirectional 2-track head system. Headphone jack. Autoreverse for both transports; auto/manual bias adjustment for both transports; high-speed dubbing; program search; one-touch operation; auto tape selector; switchable MPX filter; relay recording; dual tape recording; autoreverse for both transports $200
Model CT203. As above with auto bias control and record for only one transport; without auto tape selector $200

Model CT201 Double Cassette Deck
Dolby B, HX Pro. LED level meters; mechanical-logic tape transports; auto tape selector $100

LUXMAN

K-373 3-Head Cassette Deck
Dolby B, C, HX Pro. Record and play heads with hard-Permalloy cores; demagnetizer; polymer-Sorbothane cassette stabilizer; line-phase sensor; Star circuitry; switchable MPX filter. Mic input; system bus connection. Bias control; record return; program search; blank search/skip; auto scan; synchro record with compatible CD players; timer record/play; display dimmer; linear fluorescent counter. FR 15 Hz-21 kHz high-bias; S/N (high bias) 74 dB Dolby C, 58 dB no NR; W&F 0.045% wrms. 17½ x 5 x 14 in; 13 lb $695

K-322 Cassette Deck
Dolby B, C, HX Pro. Metal chassis; record and play heads with hard-Permalloy cores; switchable MPX filter. Bias fine-tuning; auto music search; auto tape-bias selector; record return; fluorescent-digital counter. FR 25 Hz-18 kHz high-bias; S/N 71 dB Dolby C, 56 dB no NR. 17½ x 5 x 7 in; 9 lb . . .$449

MARANTZ

DR-700 CD-RW Recorder
Optical and coaxial digital inputs. SCMS copy-inhibit system. Gold-plated headphone jack. Automatic or manual track numbering; 30-track programming; remote control. 17 x 3½ x 12 in; 9 lb $850

SD-57 Cassette Deck
Dolby B, C, S, HX Pro. Hard-Permalloy record/play head; double-gap-ferrite erase head; computer-controlled logic; switchable MPX filter. Headphone jack with volume control. Synchro record with compatible CD players; timer record/play; manual/auto bias control; auto tape selector; digital tape counter; 2-color level meters with peak-hold; display dimmer; infrared remote control. FR 20 Hz-20 kHz ±3 dB; S/N 85 dB; W&F 0.05% wrms. 3-yr parts-and-labor warranty. 17⅜ x 5½ x 12 in; 8 lb $400

SD-63 3-Head Cassette Deck
Dolby B, C, HX Pro. Hard-Permalloy record and play heads; double-gap ferrite erase head; alloy flywheel. RC-5 system remote-control jacks. Microprocessor-controlled logic; switchable MPX filter; bias, level, and balance recording controls; synchro record with compatible CD players; fluorescent display; remote control. FR 20 Hz-17 kHz ±3 dB high-bias; S/N 78 dB Dolby C, 58 dB no NR; W&F 0.05% wrms. 3-yr parts-and-labor warranty. 16½ x 5½ x 12 in $350

SD-2020 Slim Series Cassette Deck
Dolby B, C, HX Pro. Designed to match CR-2020 Slim Series Receiver/CD Player. Compact chassis; hinged titanium front panel conceals all controls; horizontal motor-driven tray; metal-alloy record/play head; dual-gap ferrite erase head; DC-servo-controlled capstan and reel drives. Autoreverse; intro scan; timer record/play; remote control; can also be operated by system remote supplied with SR-2020 receiver. FR 30 Hz-18 kHz high-bias, no NR; S/N 78 dB Dolby C, 58 dB no NR; W&F 0.1%. 16⅝ x 3 x 12⅛ in; 10 lb $300

SD-455 Double Cassette Deck
Dolby B, C, HX Pro. Dual 2-motor transports; auto reverse; auto bias. Dual tape counters. Includes remote control. FR 28 Hz-18 kHz ±3 dB; S/N 74 dB Dolby C; W&F 0.08% wrms. 3-yr warranty. 17⅜ x 5¼ x 12½ in; 10 lb $299

NAD

Model 613 Cassette Deck
Dolby B, C, HX Pro. 2 Permalloy heads; full-logic control mechanism; Peak-hold metering; bias adjust; play-trim EQ; NAD Link for remote control. FR 30 Hz-16 kHz ±3 dB; S/N (high bias) 78 dB Dolby C, 59 dB no NR; W&F 0.07% wrms. 17⅛ x 5 x 12⅜ in $399

Model 616 Double Cassette Deck
Dolby B, C, HX Pro. Dual-well/dual record; full-logic control mechanisms. Peak-hold metering; bias adjust; play-trim EQ; NAD Link for remote control. FR 30 Hz-18 kHz ±3 dB; S/N (high bias) 78 dB Dolby C, 58 dB no NR; W&F 0.07% wrms. 17⅛ x 5 x 12¼ in; 13 lb $399

ONKYO

The following feature Onkyo RI-system remote-control compatibility.

Integra TA-6711 3-Head Cassette Deck
Dolby B, C. 3 motor/3 head design; linear-glide loading system; auto/manual Accubias system; vibration-free chassis; full-logic control. Twin mic inputs. Real-time counter; music search/skip; fluorescent peak meters. FR 20 Hz-19 kHz high-bias; W&F 0.045% wrms. 17⅛ x 5¼ x 14⅝ in $800

Integra TA-RW909 Double Cassette Deck
Dolby B, C, HX Pro. 3 motors; synchro record with compatible CD players; Power Glide loading system. Headphone jack. Autoreverse for both transports; auto tape selector; 4-digit real-time counters; auto space; record/play timer; separate input and balance controls; bidirectional music search; LED peak level indicator; remote control. FR 20 Hz-18 kHz high-bias; S/N 58 dB; W&F 0.065% wrms. 18 x 5¼ x 14¼ in; 18 lb $710

TA-RW505 Double Cassette Deck
Dolby B, C, HX Pro. Full-logic control mechanism. Headphone jack. Autoreverse record/play for both transports; 2-tape simultaneous record; 2-tape sequential play; synchro record with compatible CD players; switchable auto space; auto tape-bias selector; high-speed dubbing; input level and balance controls; program search; repeat. FR 20 Hz-16 kHz high-bias; W&F 0.07% wrms. 18 x 4¾ x 12⅛ in; 13 lb $425

TA-RW544 Double Cassette Deck
Dolby B, C, HX Pro. Full-logic control mechanism. Headphone jack. Autoreverse record/play for both transports; program search; synchro record with compatible CD players; switchable auto space; auto tape-bias selector; 2-tape sequential play; high speed dubbing; input level control; fluorescent peak-level indicator. FR 20 Hz-16 kHz high-bias; W&F 0.07% wrms. 18 x 4¾ x 12⅛ in; 13 lb ...$335

TA-R440 Cassette Deck
Dolby B, C, HX Pro. Full-logic controls; 2 motor transport system; proprietary Accubias system; rigid antiresonant chassis. CD-synchro recording; 13-segment fluorescent display with peak level/hold meters; A/B block repeat; auto spacing; remote control. FR 20 Hz-19 kHz high-bias; S/N 58 dB; W&F 0.07% wrms. 17 x 4¾ x 12 in; 11 lb $280

TA-RW344 Double Cassette Deck
Dolby B, C, HX Pro. Full-logic control mechanism. Headphone jack. Record for 1 transport; autoreverse for both transports; synchro record with compatible CD players; switchable auto space; auto tape-bias selector; 2-tape sequential play; high-speed dubbing; input level control; LED peak-level indicator. FR 20 Hz-16 kHz high-bias; W&F 0.07% wrms. 18 x 4¾ x 12⅛ in; 12 lb ...$250

OPTIMUS BY RADIO SHACK

SCT-56 Double Cassette Deck
Dolby B, C, HX Pro. Autoreverse for both transports; high-speed dubbing; program search; blank skip; 2-tape continuous play; synchro record with compatible Optimus CD players; auto tape-bias selector; fluorescent display; remote control through select Optimus receivers $200

SCT-49 Double Cassette Deck
Dolby B. Headphone jack. Autoreverse for one transport; 2-tape continuous play; high-speed dubbing; auto tape-bias selector; 2 input-level controls; record-level meters $150

SCT-53 Double Cassette Deck
Dolby B. 2-tape sequential play; high-speed dubbing; auto record-level control; auto tape-bias selector $120

SCT-86 Cassette Deck
Dolby B. Microphone jacks. Normal/high-bias selector; pause; 2 record-level controls; 2 LED level meters; tape counter $80

OTARI

MR-30 MD Recorder
18-bit D/A and A/D converters. AES/EBU and coaxial digital inputs and outputs; analog RCA and XLR inputs and outputs; headphone jack; computer-keyboard interface. Synchro record; auto track increment; programmed play; end monitoring; pitch control; hot-start function; SCMS selectable; jog/shuttle control; fluorescent display. Sampling rates 44.1 kHz; FR 20 Hz-22 kHz; S/N 92 dB; THD 0.02%; dynamic range 88; ch sep 80 dB. 19 x 5¼ x 11 in; 15 lb $2,595
PB-51XAS. Sampling-rate converter $355

CDR-18 CD Recorder
1-bit A/D and D/A converters. Turntable-style mechanism; downward firing laser. Analog XLR and RCA inputs; AES/EBU digital inputs; optical and coaxial inputs and digital outputs; RCA output; headphone jack. Can copy DAT, CD, and MD IDs; digital synchro record mode; digital fader function; input monitoring without disc; infrared remote. Includes rack mount kit. Sampling rates 32 and 48 kHz; FR 4 Hz-20 kHz ±1.0 dB; S/N 100 dBA; THD 0.01% at 1 kHz; dynamic range 90; ch sep 90 dB. 19 x 5¼ x 11 in; 15 lb $2,195

DTR-8S DAT Deck
1-bit A/D and D/A converters. Universal-voltage power supply. AES/EBU and coaxial digital inputs and outputs; switchable (+4/-10 dB) analog XLR input and output; headphone jack. Jog/shuttle control; high-speed search; character pack; Q-code synchro start; input monitoring without tape; error-rate meter; peak reset button; infrared remote control. Includes rack-mount kit. Sampling rates 32, 44.1, and 48 kHz; FR 20 Hz-22 kHz; S/N 89 dB; THD 0.007% at 1 kHz; dynamic range 90; ch sep 90 dB. 16 x 4¾ x 14 in; 18 lb $1,395

PHILIPS

CDR 765 Double CD-RW Recorder
1-bit A/D converter. 2 transports (1 play-only); records and plays CD-R and CD-RW discs; double speed recording for discs; 2-disc simultaneous play and random play; Direct line recording of 44.1 kHz sources; SCMS copy-inhibit system. Separate transport outputs; gold-plated headphone jack. 30-track programming for both transports; synchro record; remote control. 17 x 3½ x 12 in; 9 lb $650

CDR 880 CD Recorder
1-bit A/D converter. Direct line recording of 44.1 kHz sources; sampling-rate converter; SCMS copy-inhibit system. Optical and coaxial digital inputs and outputs; gold-plated headphone jack. Automatic or manual track numbering; synchro record; remote control. Sampling rates 12 to 56 kHz. 17 x 3½ x 12 in; 9 lb $650

CDR 760 CD Recorder
1-bit A/D converter. Direct line recording of 44.1 kHz sources; SCMS copy-inhibit system. Gold-plated headphone jack. Automatic or manual track numbering; 30-track programming; remote control. 17 x 3½ x 12 in; 9 lb $550

PIONEER

PDR-05 CD Recorder
1-bit Pulseflow D/A converter. Stable-platter mechanism; sampling-rate indicator; sampling-rate converter for 32- and 48-kHz sources; servo and digital circuits isolated from analog circuits; SCMS copy-inhibit system; three-beam differential push/pull pickup. Auto record/pause; auto space mute; manual and auto track search; recording-end search; fade-in/fade-out recording; sampling-rate indicator; digital-source indicator; fluorescent display; level meter $1,970
PDR-04. As above without sampling-rate converter or sampling-rate indicator $1,165

PD-R555RW CD-RW Recorder
20-bit D/A and 20-bit A/D converters. Records CD-R, CD-RW (rewritable), DTS-encoded discs; digital noise reduction; sampling-rate converter. Coaxial and optical digital inputs; optical digital output; Remote control $699

MJ-D707 MD Recorder
20-bit D/A and A/D converters. Sampling-rate converter; variable ATRAC coder. Optical digital input; coaxial digital input; optical digital output; Auto CD-title memory; medley play; remote control. Sampling rates 32, 44.1, and 48 kHz; FR 8-20 kHz; S/N 101 dB; THD 0.005% at 1 kHz; dynamic range 94. 16⅝ x 4⅛ x 11⅝ in; 9 lb $399

CT-W616DR Double Cassette Deck
Dolby B, C, HX Pro. Auto tape-bias adjustment; record-level optimization. Headphone jack. Autoreverse; 2-tape sequential record/play; high-speed dubbing; program search; blank skip; synchro record with compatible CD players; 4-digit electronic linear/elapsed-time counter; fluorescent peak-hold meter; SR-system remote compatibility $300
CT-W606DR. As above without auto tape-bias adjustment or record-level optimization $275

CT-W404R Double Cassette Deck
Dolby B, C, S, HX Pro. Tape-duplication noise suppressor. Headphone jack. Autoreverse for one transport; record for one transport; relay play; high-speed dubbing; program search; blank skip; synchro record with compatible CD players; 4-digit electronic linear/elapsed-time counter; fluorescent peak-hold level meter; SR-system remote compatibility $235

CT-W205R Double Cassette Deck
Dolby B, C. MPX filter. Autoreverse; LED level meter; high-speed dubbing; double auto-tape selector; relay play; auto record mute; skip search; blank skip; rewind auto play; SR compatible $220

Elite Series
The following feature Legato Link conversion circuitry, which uses a proprietary algorithm said to to restore frequency content lost in recording.

Elite PDR-99 CD Recorder
1-bit pulseflow D/A converter. Stable-platter mechanism; center-mount tray; wood side panels; SCMS copy-inhibit system. Optical and coaxial digital inputs and outputs; headphone jack with volume control. One-touch synchro record and auto pause via source component signal sensing; direct track access; remote control. Sampling rates 32 and 48 kHz $2,000

MJ-D17 MD Recorder
20-bit D/A and A/D converters. Legato link; sampling-rate converter; honeycomb chassis; variable ATRAC coder. Optical digital input; coaxial digital input; optical digital output; Auto CD-title memory; medley play; digital volume control; remote control. Sampling rates 32, 44.1, and 28 kHz; FR 8-20 kHz; S/N 101 dB; THD 0.005% $800

CT-07D Double Cassette Deck
Dolby B, C, HX Pro for both transports. Digital processing system for recording; 4 heads; 4 motors; honeycomb chassis; motor-driven doors. 2 coaxial digital inputs; headphone/mic jack. Synchro record with compatible CD players; relay play; music skip search; high-speed dubbing; super auto blend; music skip search; autoreverse for both transports. S/N 90 dB; W&F 0.09%. 16½ x 4⅞ x 9⅞ in; 10 lb $550

CT-05D Double Cassette Deck
Dolby B, C, HX Pro for both transports. 3 heads; two motors; honeycomb chassis. Headphone jack. Synchro record with compatible CD players; relay play; super auto balance; auto-space record mute; music skip search; high-speed dubbing; autoreverse for both transports. S/N 90 dB; W&F 0.09%; THD 0.8%. 16½ x 4⅞ x 9⅞ in; 9 lb $400

REVOX

Emotion B-21 Cassette Deck
Dolby B, C, HX Pro. Dual capstans; microcomputer-controlled spooling and auto tape alignment. Real-time tape counter. FR 30 Hz-20 kHz ±3 dB high bias, no NR; S/N 73 dB Dolby C high-bias; W&F 0.1% wrms $2,895

ROTEL

RD-960BX Cassette Deck
Dolby B, C, HX Pro. Two motors; switchable MPX filter. 1 set each left/right RCA inputs and outputs. Bias-fine tuning; program search; memory rewind/repeat; remote control. FR 20 Hz-18 kHz ±3 dB; S/N 74 dB; W&F 0.035% wrms; THD 0.9% THD. 17⅜ x 4⅞ x 13 in $400

SHARP

MD-R3 MD Recorder
MD recorder with 3 disc CD changer; ATRAC 5.0; 20-bit wide bit processing LSI. Optical and coaxial digital inputs; line and mic inputs; digital optical output; line output; headphone jack. 100-character track or disc naming; jog dial control; divide, combine, erase, and move MD-edit functions; one-touch synchro digital recording from 3 CDs to MD; timer recording/play; date and time stamping; 20-track music calendar; space-cut recording; remote control. Sampling rates 32/44.1/48 kHz. 17 x 4¾ x 12 in; 11 lb $500
MD-R2. As above, without CD changer or mic output. FR 4 Hz-20 kHz; S/N 100 dB; W&F 0.001%; THD 0.008%; dynamic range 90 dB. 17 x 3¾ x 12 in; 8 lb $350

MD-MS702 Portable MD Recorder
24-bit ATRAC 5.0 coder; antishock memory. Optical input; mic input; headphone jack. Auto play; synchro record; remote control with backlit LCD. Includes rechargeable lithium-ion battery, AC adapter and carrying case. Car-adapter kit and optical cable optional. Sampling rates 32, 44.1, and 48 kHz; FR 20 Hz-20 kHz ±3 dB. 3½ x 1 x 3⅛ in $400

SHERWOOD

DD-6080 Double Cassette Deck
Dolby B, C, HX Pro. Twin full-logic transports; Super Hi-B tape heads; 4 motors. Headphone jack. 3-way counter; synchro record; relay play; high-speed dubbing; 2-color fluorescent display. FR 20 Hz-19 kHz high-bias, no NR; S/N (high-bias) 53 dB no NR, 73 dB Dolby C; W&F 0.06% wrms; THD 1.5%. 17⅜ x 5⅝ x 11⅛ in; 11 lb $299

DD-5080 Double Cassette Deck
Dolby B, C, HX Pro. Two full-logic transports; Super High-B tape heads. Headphone jack. 3-way counter; synchro record; relay play; high-speed dubbing; peak-level meters; 2-color fluorescent display. FR 20 Hz-18 kHz ±3 high-bias, no NR; S/N (high-bias) 53 dB no NR, 73 dB Dolby C; W&F 0.08% wrms. 17⅜ x 5⅝ x 9⅝ in; 9 lb $199

Newcastle Series
DD-980 Double Cassette Deck
Dolby B, C, S, HX Pro. Two full-logic transports; Super Hi-B tape heads; 4 motors. Headphone jack. 20 track music search; relay play; tape-to-tape and CD-to-tape synchro record; high-speed dubbing; memory stop; record mute; blank skip; electronic 4-digit time counter; 2-color fluorescent display. FR 20 Hz-18.5 kHz high-bias; S/N (high-bias) 56 dB no NR, 81 dB Dolby S; W&F 0.06% wrms; THD 1%. 3-yr parts-and-labor warranty. 17⅜ x 5⅝ x 11⅛ in; 11 lb $400

D-480 Double Cassette Deck
Dolby B, C, HX Pro. 2-motor full-logic transports; Super Hi-B tape heads. Headphone jack. 20 track music search; autoreverse for both transports; relay play; tape-to-tape and CD-to-tape synchro record; high-speed dubbing; memory stop; record mute; blank skip; electronic 4-digit time counter; 2-color fluorescent display. FR 20 Hz-17.5 kHz high-bias; S/N (high-bias) 53 dB no NR, 73 dB Dolby C; W&F 0.008%; THD 1.2%. 3 year parts-and-labor warranty. 17⅜ x 5⅝ x 9⅝ in; 9 lb $250

SONY

DTC-ZA5ES DAT Deck
Pulse-type D/A and A/D converters. Super Bit-Mapping encoding system; 4-motor direct-drive transport; center-mount transport; can record at 44.1 kHz from analog sources; 20-bit digital filter; quick-loading mechanism. Mic inputs; optical and coaxial inputs and outputs. Standard-and long-play modes; high-speed rewind; 200/400X high-speed search; auto music-sensor track search; random music-sensor track programming; audible cue at 2.5/8.5X speed; auto fader; 23-segment digital peak-level meters; synchro recording from compatible CD player; auto ID subcodes; manual-start ID subcodes; SCMS copy-inhibit system; timer activated record or play; track/tape repeat. Sampling rates 32, 44.1, and 48 kHz; FR 2 Hz-22 kHz ±0.5 dB; S/N 93 dB; THD 0.0045% at 1 kHz. 5-yr warranty. 17 x 5 x 14⅛ in; 17 lb $1,600

DTC-ZE700 DAT Deck
Pulse-type D/A and A/D converters. 20-bit digital filter with dither and 45-bit internal processing; 3-motor direct-drive transport; Super Bit-Mapping technology; 44.1-kHz analog-recording capability; digital-peak margin display. Optical and coaxial digital inputs; optical digital output; headphone jack with volume control. Standard and long-play modes; auto/manual ID subcoding; track programming; 200X or 400X fast search; audible cue at 2.5/8X speed; intro scan; direct-track access; synchro record with compatible CD players; 2-repeat modes; timer record/play capability; record mute; selectable absolute- or remaining-time display; remote commander wireless remote. Sampling rates 32, 44.1, and 48 kHz; FR 2 Hz-22 kHz ±0.5 dB; THD 0.005% at 1 kHz; dynamic range 90. 17 x 4⅞ x 12⅞ in; 11 lb $800

MD Recorders
MDS-JA3ES MD Recorder
1-bit pulse A/D converter. 3rd-generation ATRAC coder; 4-sec antishock memory; 20-bit digital-play filter with dither; 45-bit internal processing; frame-and beam antivibration construction; aluminum front panel. 20-bit output; optical digital input and output; coaxial digital input; headphone jack with volume control; dual mono mic inputs. Disc title, track title, and artist name displays for prerecorded MD; 1,700-character text entry for each recordable MD; auto-record-pause after 30-second recording silence; auto date/time stamp; synchro record with compatible CD players; track skip; random play; 3 repeat modes; 25-track programming; direct-track access from remote; timer record/play; digital peak-level meters; remote control with jog-dial. Sampling rates 32, 44.1, and 48 kHz; FR 5 Hz-20 kHz ±0.5 dB; S/N 103 dB. 5-yr warranty. 17 x 5 x 13⅜ in; 13 lb $1,200
MDS-JA50ES. As above, 4th-generation ATRAC coder; current pulse D/A, 24-bit A/D converter; tray-loading mechanism; digital record-level control; digital-output bit-length selector (16- or 20-bit); 1 coaxial and 2 optical digital inputs; 1 optical output; fade in/out record and play modes; brushless-slotless-linear motor; FR 5 Hz-20 kHz ±0.3 dB; S/N 108 dB; 5-yr warranty; 31 lb $2,000

MDS-JA20ES MD Recorder
Pulse D/A converter. Wide bitstream 20-bit decoding; digital filter; aluminum front panel; rigid frame and beam construction; sampling rate converter. 1 coaxial and 2 optical digital inputs; 1 coaxial output. Pitch control; CD Text transfer; jog dial for track selection; S-link; CD synchro record; undo editing; digital record-level control. Remote control. Sampling rates 32, 44.1, and 48 kHz; FR 5-20 Hz ±0.3 dB; S/N 105 dB. 5-yr parts-and-labor warranty. 17 x 5 x 14 in; 13 lb $700

MDS-JE700 MD Recorder
1-bit pulse-type A/D converter. 4th-generation ATRAC audio coder; 8X oversampling; 18-bit digital filter; 10-sec memory buffer; sampling-rate converter; current pulse D/A converter; CD Custom File text transfer; aluminum front-panel; S-Link. 1 coaxial and 2 optical digital inputs. Jog-dial for track selection; 25-track programming; 25-track music calendar; random play; 3 repeat modes; CD synchro record with compatible CD players; remote control; time/date stamp. FR 5 Hz-20 kHz ±0.3 dB; S/N 96 dB. 17 x 4¾ x 12⅜ in $600

MDS-JB920 MD Recorder
20-bit A/D and D/A converter. Aluminum front panel; sampling-rate converter. 1 coaxial and 2 optical digital inputs; 2 optical digital outputs; 1 coaxial digital output; headphone jack. CD Text transfer; pitch control; jog dial; fade in/out recording; undo editing; digital record-level control. Sampling rates 32, 44.1, and 48 kHz; S/N 100 dB. 17 x 4¼ x 11 in; 11 lb $480

MDS-JE520 MD Recorder
Hybrid pulse D/A, 1-bit pulse-type A/D converter. 4th-generation ATRAC audio coder; 8X oversampling; 18-bit digital filter; sampling rate converter; 10-sec memory buffer; nonlinear recording and play; antiresonant insulator feet; smart space. Optical digital input and output; coaxial digital input and output; headphone jack. Jog-dial for track selection; fade-in/fade-out recording; 25-track programming; 25-track music calendar; random play; digital record volume; 3 repeat modes CD synchro record with compatible CD players; remote control. FR 5 Hz-20 kHz ±0.3 dB; S/N 96 dB. 17 x 3¾ x 11 in; 8 lb $360

ES Series Cassette Decks
TC-KA3ES 3-Head Cassette Deck
Dolby B, C, S, HX Pro. Closed-loop dual-capstan three-motor direct drive; transport center-mounted between power supply and audio circuits to reduce noise; transport angled for smoother capstan rotation; quartz-locked speed servo; sapphire main bearings; laser-amorphous record and play heads; auto-record level, EQ, and bias adjustment for each tape with built-in oscillator; antiresonant aluminum front panel; ceramic cassette holder; Sorbothane cassette stabilizer. Gold-plated inputs and outputs; headphone jack with volume control. Powered cassette loading; direct track access; 9-track program search; switchable auto-play after fast-forward/rewind; record mute; linear counter with memory; 24-segment fluorescent peak-level meters; remote control through compatible Sony receivers, integrated amps, or preamps. FR 20 Hz-20 kHz ±3 dB high-bias; S/N (high bias) 59 dB no NR; W&F 0.022% wrms. 5-yr-limited warranty. 17 x 5⅜ x 14¼ in; 17 lb $950

TC-WA9ES Double Cassette Deck
Dolby B, C, S, HX Pro, for both transports. Dual 3-motor tape transports; auto bias and record calibration for each transport; Sorbothane cassette stabilizers; laser-amorphous tape heads; ceramic cassette holder; antiresonant-aluminum front pan-

el; switchable MPX filter. Headphone jack with volume control. Autoreverse record/play for both transports; powered cassette loading; 2-tape simultaneous or sequential record; pitch control; blank skip; track programming; 9-track program search; high-speed dubbing; 2-tape relay play; switchable auto-play after fast-rewind; record mute; auto pause; timer record/play; twin-linear time counter of minutes and seconds with memory; 16-segment fluorescent peak-level meters; remote through compatible Sony receivers. FR 25 Hz-18 kHz ±3 dB; S/N (high bias) 58 dB no NR; W&F 0.06% wrms. 5-yr-limited warranty. 17 x 5⅞ x 13¾ in; 14 lb . . .$950

TC-K2ES 3-Head Cassette Deck
Dolby B, C, S, HX Pro. High-precision 3-motor tape transport; 160 kHz Super Bias circuitry; FET play amplifier; high-speed fast-forward and rewind; auto bias and record calibration; center-mount transport mechanism; Sorbothane cassette stabilizer; high-density Permalloy tape heads. Headphone jack. Linear time counter; switchable MPX filter; multiple-track program search; 16 segment fluorescent peak-level meters switchable auto-play fast rewind; record mute; remote control through compatible Sony receivers. FR 30 Hz-19 kHz ±3 dB high-bias; S/N 61 dB no NR; W&F 0.055% wrms. 5-yr-limited warranty. 17 x 4¾ x 12¼ in; 9 lb $550

TC-WA8ESA Double Cassette Deck
Dolby S, B, C, HX Pro for both transports. 2 motors for each transport; auto record calibration for both transports; Permalloy heads; ceramic cassette holder; switchable MPX filter. Headphone jack. Autoreverse record/play for both transports; 2-tape simultaneous or sequential record; track programming; 9-track program search; high-speed dubbing; 2-tape relay play; record level and balance controls; auto play after fast-forward/rewind; record mute; twin linear time counter of minutes and seconds with memory; 14-segment fluorescent peak meters; remote control through compatible Sony receivers, integrated amps, or preamps. FR 30 Hz-17 kHz ±3 dB high-bias; S/N (high bias) 57 dB no NR; W&F 0.07% wrms. 5-yr-limited warranty. 17 x 5 x 11½ in; 10 lb $550

TC-KA1ES 3-Head Cassette Deck
Dolby B, C, S, HX Pro. 2-motor transport; auto record calibration; drive between power supply and audio circuits; antiresonant aluminum front panel; ceramic cassette holder; Sorbothane cassette stabilizer; switchable MPX filter. Gold-plated inputs and outputs; headphone jack. Powered cassette loading; auto play after fast-forward/rewind; record mute; linear counter with memory; 16-segment fluorescent peak meters; remote control through compatible Sony receivers, integrated amps, or preamps. FR 30 Hz-18 kHz ±3 dB high-bias; S/N (high bias) 59 dB no NR; W&F 0.055% wrms. 5-yr-limited warranty. 17 x 5 x 12¼ in; 9 lb $350

TC-WA7ESA Double Cassette Deck
Dolby B, C, S, HX Pro. 2 motors for each transport; Permalloy heads; ceramic cassette holder; switchable MPX filter. Headphone jack. Autoreverse for both transports; 9-track program search; high-speed dubbing; 2-tape relay play; auto play after fast-forward/rewind; record mute; 2 electronic linear-time counters with memory; can find and play selections in any programmed sequence; fader switch; 14-segment fluorescent peak meters; remote control through compatible Sony receivers, integrated amps, or preamps. FR 30 Hz-17 kHz ±3 dB high-bias; S/N (high bias) 57 dB no NR; W&F 0.07% wrms. 5-yr-limited warranty. 17 x 5 x 11½ in; 10 lb $350

Portable MD Recorders
MZ-R30 Portable MD Recorder
16-bit D/A and 16-bit A/D converters. Sampling-rate converter; AVLS; 10-sec antishock memory; plays up to 15 hrs with 1 lithium-ion and 2 AA batteries. AC-adapter input; mic input; line-level analog and optical digital inputs/outputs; headphone and remote-control jacks. Jog dial for track selection; digital synchro recording capability (MD Link); digital bass-boost with 3-position switch; position pointer; full editing features (divide/combine/erase/all erase/move/titling). Includes AC power adapter, lithium-ion rechargeable battery, AA-battery case, and headphones. Sampling rates 32, 44.1, and 48 kHz; FR 20 Hz-20 kHz ±3 dB. 4⅞ x 1 x 3 in; 8 lb $549

MZ-R50 Portable MD Recorder
16-bit A/D and D/A converters. 40-sec antishock memory; sampling-rate converter; 22-hrs play on rechargeable lithium-ion battery and AA batteries. Mic input; line-level minijack input/output; optical digital input; headphone jack; remote-control minijack output. Jog dial for track selection; digital bass-boost with 3 position switch; position pointer; divide, combine, erase, all erase, move, titling edit functions; digital synchro record; remote control. Includes AC adapter, lithium battery, battery case, carry pouch; and earphones with in-line LCD remote. Mic, car kit, and optical cables optional. Sampling rates 32, 44.1, and 48 kHz; FR 20 Hz-20 kHz ±3 dB. 4¼ ¾ x 3 in $400

MD Accessories
Stereo mic for MZ-R30 . . . . . .$90
Optical digital cables for MZ-R30 . . . . . .$40
Rechargeable battery for MZ-E30 . . . . . .$35
Car adapter pack for MZ-R30 . . . . . .$25
AC power adapter for MZ-R30 . . . . . .$23
Car battery cord for MZ-R30 . . . . . .$20
Micro-to-mini headphone adapter for MZ-R30 . . .$10

Cassette Decks
TC-KE500S 3-Head Cassette Deck
Dolby B, C, S, HX Pro. 160-kHz Super Bias circuitry; FET output amp; bias and record calibration; center-mount tape transport; Sorbothane cassette stabilizer; high-density Permalloy record and play heads. Headphone jack. High-speed fast-forward and rewind; switchable MPX filter; electronic tape counter; track search; 16-segment fluorescent peak-level meters; switchable auto-play; record mute; remote capable with any Sony-receiver remote control; linear time counter. FR 30 Hz-19 kHz ±3 dB; S/N 61 dB no NR; W&F 0.055% wrms. 17 x 4¾ x 12¼ in; 9 lb $360

TC-WE825S Double Cassette Deck
Dolby B, C, S, HX Pro. Dual 2-motor transports; high-density Permalloy tape heads; MPX filter; twin linear tape counters; high-speed fast-forward and rewind; synchro record with compatible CD players; auto record-level and calibration for both transports; twin-linear time counters; high-speed dubbing; relay play. Headphone jack. Fader switch; 14-segment fluorescent peak-level meters; switchable auto-play after fast-wind; record mute; can be operated from remote control supplied with any Sony receiver; wide-range pitch control; random music search/programming; twin/relay recording; autoreverse for both transports. FR 30 Hz-19 kHz ±3 dB; S/N 58 dB no NR; W&F 0.07% wrms. 17 x 4¾ x 11½ in; 9 lb $300

TC-KE400S Cassette Deck
Dolby B, C, S, HX Pro. Center-mount ultra-stable 2-motor tape transport; Sorbothane cassette stabilizer; high-density Permalloy tape head; single-well design. Headphone jack. Switchable MPX filter; electronic tape counter; multiple-track program search; 16-segment fluorescent peak-level meters; switchable auto-play; record mute; remote capable with any Sony-receiver remote control. FR 30 Hz-18 kHz ±3 dB; S/N 58 dB no NR; W&F 0.07% wrms. 17 x 4¾ x 12¼ in; 8 lb $250

TC-WE625S Double Cassette Deck
Dolby B, C, HX Pro. Dual 2-motor tape transports; high-density Permalloy tape heads; MPX filter; synchro record with compatible CD players; auto record calibration and level; twin electronic tape counters; relay play. Headphone jack. Multiple-track program search; high-speed dubbing; fader switch; 14-segment fluorescent peak-level meter; switchable auto-play after fast-wind; record mute;

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can be operated from remote control supplied with any Sony receiver; S-Link communication with other Sony components; autoreverse for both transports; twin/relay recording. FR 30 Hz-19 kHz ±3 dB; S/N 58 dB no NR; W&F 0.07% wrms. 17 x 4¾ x 11⅛ in; 8 lb $250

TC-WE425 Double Cassette Deck
Dolby B, C, HX Pro. 2-motors; high-density Permalloy tape heads; MPX filter; S-link. Headphone jack. Twin electronic tape counters; auto record level; high-speed dubbing; relay play; fader switch; 14-segment fluorescent peak-level meters; record level control; switchable auto-play after fast rewind; record mute; remote capable with any Sony-receiver remote control; autoreverse for both transports. FR 30 Hz-18 kHz ±3 dB; S/N 58 dB no NR; W&F 0.10% wrms. 17 x 4¾ x 11½ in; 8 lb $180

TC-WE305 Double Cassette Deck
Dolby B. High-density Permalloy tape heads; high-speed dubbing. Mechanical tape counter; 7-segment LED peak-level meters. FR 30 Hz-15 kHz ±3 dB; S/N 58 dB no NR; W&F 0.11% wrms. 17 x 4¾ x 11⅛ in; 8 lb $99

TEAC

V-8030S 3-Head Cassette Deck
Dolby B, C, S, HX Pro. Quartz-locked dual-capstan 4-motor direct drive; cobalt amorphous head; center-mount transport; cassette stabilizer; antivibration chassis. Gold-plated line-level connectors and CD-direct jacks; headphone jack with volume control. Program search; synchro record with compatible CD players; record mute with auto space; master and balance record-level controls; auto tape-bias selector; remote control. FR 15 Hz-20 kHz ±3 dB; S/N 84 dB Dolby S; W&F 0.022% wrms. 17⅝ x 6 x 14⅛ in $1,149
V-6030S. As above, drive not quartz-locked direct. No record mute with auto space or auto tape-bias selector. W&F 0.027% wrms $1,150

V-2030S 3-Head Stereo Cassette Deck
Dolby B, C, S, HX Pro. Auto bias and level-record calibration system with built-in oscillator; hard-Permalloy record and play combination head with PC-OCC wiring; 150-kHz high-frequency bias current; heavy-duty die-cast zinc-alloy head block assembly; cassette stabilizer; center-mounted tape transport; electronic tape counter with time mode; aluminum front panel. Mic input; headphone jack with level control. Switchable MPX filter; multifunction fluorescent display with dimmer control; 16-segment peak-level meters; record mute with auto space; memory stop/play; auto monitor; concentric dual record-level controls; auto tape-type selector; timer record/play; full-function remote control. FR 15 Hz-20 kHz ±3 dB high-bias; S/N 84 dB Dolby S, 60 dB no NR; W&F 0.045% wrms. 17½ x 6 x 11⅝ in; 11 lb $650

V-1030 3-Head Stereo Cassette Deck
Dolby B, C, HX Pro. Center-mounted tape transport; bias fine-tuning control; hard-Permalloy record and play combination head with PC-OCC wiring; cassette stabilizer; heavy-duty die-cast zinc-alloy head block assembly; electronic tape index counter with timer mode. Mic input; headphone jack with level control. Switchable MPX filter; multifunction-fluorescent display with dimmer control; 16-segment peak-level meters; record mute with auto space; auto monitor; auto tape-type selector; timer record/play capability; infrared remote sensor. RC-393 remote control unit optional. FR 15 Hz-20 kHz ±3 dB high-bias; S/N 80 dB Dolby C, 60 dB no NR; W&F 0.045% wrms. 17½ x 6 x 11⅝ in; 11 lb $400

AD-500 Cassette Deck/CD Player
Dolby B. Logic control mechanism; hard-Permalloy record/play heads. Autoreverse; pitch control; reverse-mode selector; auto-tape selector; synchro record; zero return; full-function remote control with mute button. FR 50 Hz-15 kHz ±3 dB high-bias; S/N 69 dB Dolby B; W&F 0.08% wrms. 17⅛ x 5¾ x 11½ in; 12 lb $389

R-560 Auto Reverse Cassette Deck
Dolby B, C, HX Pro. Center-mounted tape transport; hard-Permalloy record/play rotating head; 2-color multifunction fluorescent display; dual peak-level meters with peak-hold; 4-digit electronic tape index counter. Headphone jack. Autoreverse; tape-running status display; record mute with auto space; auto tape-type selection; blank scan; repeat; CD Synchro dubbing; full auto-stop; compatible with Teac UR system remote control. FR 25 Hz-18 kHz high-bias; S/N 79 dB Dolby C, 59 dB no NR; W&F 0.06% wrms. 17½ x 5⅞ x 11½ in; 9 lb . . .$289

V-615 Stereo Cassette Deck
Dolby B, C, HX Pro. IC logic control mechanism; hard-Permalloy record/play head; center-mounted tape transport. Headphone output. Tape-running status display; record mute with auto space; auto tape-type selection; blank scan; CD Synchro dubbing; full auto-stop; dual peak-level meters with peak-hold; 4-digit electronic tape counter; compatible with Teac UR system remote control; infrared remote sensor. RC-393 remote control unit optional. FR 25 Hz-18 kHz high-bias; S/N 79 dB Dolby C, 59 dB no NR; W&F 0.06% wrms. 17½ x 5⅞ x 11½ in; 9 lb $239

V-377 Cassette Deck
Dolby B. Center-mount transport; hard-Permalloy record/play head. LED peak-level meter. FR 30 Hz-15 kHz; S/N 65 dB Dolby B; W&F 0.09% wrms. 17⅛ x 5⅛ x 8½ in $119

Double Cassette Decks
W-6000R Double Cassette Deck
Dolby B, C, HX Pro. Cassette stabilizer; motor-driven volume control. L/R mic inputs; headphone jack. Rotating-head autoreverse record/play for both transports; +6% pitch control for one transport; 2-tape simultaneous play; mic/line mixing; auto fade-record with compatible CD players for one transport; program search; high-speed dubbing; auto record-level control; fluorescent display; remote control. FR 25 Hz-18 kHz high-bias; S/N 69 dB Dolby B, 79 dB Dolby C; W&F 0.06% wrms. 17⅛ x 5⅞ x 12⅞ in $750

W-850R Double Cassette Deck
Dolby B, C, HX Pro. Hard-Permalloy record/play heads. L/R mic inputs; headphone jack. Rotating-head auto-reverse record/play for both transports; 2-tape sequential play; program search; intro scan; blank search; record mute with auto space; dual level meters with peak-hold; two 4-digit electronic counters; fluorescent display; compatible with Teac UR system remote control. Separate remote optional. FR 25 Hz-18 kHz high-bias; S/N 79 dB Dolby C; W&F 0.06% wrms. 17⅛ x 5¾ x 11¼ in . . .$339

W-780R Double Cassette Deck
Dolby B, C, HX Pro. Twin IC logic control mechanism; precision hard-Permalloy record/play rotating head system; synchro reverse and dubbing capability; dual peak-level program level meters with peak-hold function; CD/deck synchro dubbing. Headphone jack with level control. Auto-reverse and repeat-play; one-touch high-speed dubbing; bidirectional double-deck continuous play; bidirectional record and play; electronic tape counter with clear button; one-touch recording; one-key dubbing start; record mute with auto spacer; full auto-stop; blank scan; auto tape selector; compatible with Teac UR remote control. FR 25 Hz-18 kHz high-bias; S/N 79 dB Dolby C, 59 dB no NR; W&F 0.06% wrms. 17⅛ x 5¾ x 11¼ in; 10 lb $219

W-518R Double Cassette Deck
Dolby B. Hard-Permalloy heads. Record for 1 transport; 2-tape sequential play; autoreverse; auto tape-bias selector; full auto-stop; timer record/play; LED peak-level meters. FR 30 Hz-15 kHz high-bias; S/N 55 dB no NR, 65 dB Dolby B; W&F 0.09% wrms. 17⅛ x 5⅛ x 8½ in $169

W-416 Double Cassette Deck
Dolby B. Hard-Permalloy heads. Record for 1 transport; high-speed dubbing; one-touch recording; full auto-stop; LED peak-level meters; high-speed dubbing; auto tape-bias selector; timer record/play; LED peak-level meters. FR 30 Hz-15 kHz high-bias; S/N 65 dB Dolby B NR; W&F 0.09% wrms. 17⅛ x 5⅛ x 8½ in; 7 lb $139

TECHNICS

RS-TR575 Double Cassette Deck
Dolby B, C, HX Pro. Record/play and autoreverse for both transports; 2-tape sequential record/play; auto tape calibration; bias control; high-speed dubbing; two linear counters; fluorescent peak-hold meters; remote control through select Technics receivers $270

RS-BX501 Cassette Deck
Dolby B, C, HX Pro. Advanced tape transport mechanism; auto tape calibration. Auto-reverse; linear-electronic tape counter; fluorescent peak-hold meters; headphone output-level control; wireless remote control through selected Technics receivers $240

RS-TR373 Double Cassette Deck
Dolby B, C, HX Pro. Autoreverse for both transports; 2X fast-forward/rewind speeds; high-speed dubbing; 2 fluorescent electronic counters; remote control through select Technics receivers . . .$220

RS-TR272 Double Cassette Deck
Dolby B, C, HX Pro. Full-logic controls. Auto record-level control; high-speed editing with synchro start/stop; fluorescent display; electronic counter; wireless remote-control capability. FR 40 Hz-15 kHz dB high-bias; S/N 64 dB; W&F 0.18% wrms. 9 lb $200

YAMAHA

The following are compatible with Yamaha's system remote control.

MDX-793 MD Recorder
20-bit D/A and 20-bit A/D converters. 24-bit quantization; sampling-rate converter; Time Rescue Recording saves previous 4 sec. 2 optical and 1 coaxial digital input. 25-track programming; random and repeat play; timer record/play; jog-dial controlled skip/search. Sampling rates 44.1 kHz; FR 5 Hz-20 kHz ±3 dB; THD 0.0035%; dynamic range 98. 17⅛ x 4¼ x 15¾ in; 17 lb $699

KX-W421 Double Cassette Deck
Dolby B, C, HX Pro for both transports. Microcomputer-controlled full-logic operation. Autoreverse; play-trim control; high-speed dubbing play trim; CD-tape synchro record; relay play; music search; auto record mute; record return; auto-tape type selection. Remote control optional. FR 20 Hz-18 kHz ±3 dB high-bias; S/N 74 dB Dolby C, 58 dB no NR; W&F 0.08% wrms. 17⅛ x 5¾ x 11⅛ in; 11 lb $299

KX-393 Cassette Deck
Dolby B, C, HX Pro. Microcomputer-controlled full-logic operation; anti-vibration feet; hard-Permalloy heads; double-gap erase heads; cassette stabilizer. Front-panel headphone jack with level control. Play-trim control; auto tape optimization tuning; MPX filter switch; manual bias control; intro scan; CD-tape segment peak-level meters; 4-digit electronic tape counter. Remote control optional. FR 20 Hz-19 kHz ±3 dB metal; S/N 74 dB Dolby C; W&F 0.07% wrms. 17⅛ x 5 x 11¼ in; 13 lb . . .$249

KX-W321 Double Cassette Deck
Dolby B and C. Microcomputer-controlled full-logic operation. Autoreverse; high-speed dubbing; auto tape-type selection; CD-tape synchro record; music search; auto record mute; record return. Remote control optional. FR 20 Hz-17 kHz ±3 dB high-bias; S/N 58 dB no NR, 74 dB Dolby C; W&F 0.08% wrms. 17⅛ x 5¾ x 11⅛ in; 11 lb $249

WU-810 ▲

WU-870 ▲

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Hi-Fi VCR's

The most popular way to enjoy great-sounding movies at home

"Buy only a hi-fi VCR." Until a year or two ago that was expensive advice, but today you can get a good hi-fi VCR for as little as $150. A hi-fi VCR is always stereo — assuming the program you are recording or the tape you are playing is in stereo. (In the early days of VHS, a stereo VCR was not necessarily hi-fi.) And only a hi-fi VCR will put out an audio signal you can decode in Dolby Pro Logic surround sound.

A VHS hi-fi VCR uses an extra pair of heads on the spinning video head drum to record the audio signal on a deeper layer of the tape than the video signal. The high relative speed of the tape passing these spinning heads results in great sound quality.

Movie studios record virtually all rental tapes with hi-fi soundtracks, and most of these are in stereo with encoded surround sound depending on the audio format of the original film. Always connect the audio outputs from the VCR directly to your amplifier, receiver, or surround-sound system (or the stereo audio inputs on your TV if you don't have a separate sound system for it). Using the coaxial RF antenna output from the VCR to the TV degrades audio quality — and, in most VCRs, results in mono playback.

Hi-fi marks the top of the line in VCR audio. Manufacturers could pay greater attention to the audio circuitry if they wanted to, but few do, and even fewer advertise audio refinements. When you pay more for a hi-fi VCR, the extra money typically goes toward improved video quality and more convenience features.

Desirable video improvements include video heads with a special narrow 19-micron gap optimized for the slow (long-play) recording speed and various forms of digital video noise reduction. Top-of-the-line VCRs may combine three or four video noise-reduction techniques, resulting in an impressive picture free of snow and fuzziness. However, no added circuits can really improve the basic VHS resolution unless you opt for a Super-VHS deck, which is considerably more expensive. Also, there are no rental movies in S-VHS. If you do decide to pay the extra tariff, all S-VHS decks come with hi-fi sound.

The remainder of your investment goes toward convenience features such as automatic clock-setting using a signal from a local TV station. Some VCRs offer compatibility with Extended Data Services (XDS), which allows stations to send data identifying the network, the station's call letters, and the program.

If you like to program your VCR to record upcoming TV shows, a long back-up memory — 4 hours or more — comes in handy when the power fails. If you record satellite broadcasts, an infrared relay (sometimes called an IR mouse) that allows your VCR to control your satellite receiver is essential. Many VCRs now include on-screen program guides (also downloaded from local TV signals) that let you highlight a program listing and press one button on the remote to set the VCR to record it. A few models include circuitry to recognize commercials and mark them during recording so that they can be skipped automatically during playback. Others simply skip forward in 30- or 60-second increments when you press a button on the remote. And still others can skip over the promotional material on rental tapes. *—Rich Warren*

TOSHIBA M784

JVC HRS7500U

Hi-Fi VCR's

AIWA

HV-MX100 VHS Hi-Fi VCR
5 play/4 record speeds; 4 video heads; frequency-synthesis tuner; 6 events/30 days programming; 181 channels. MTS/SAP decoder; digital auto tracking; HQ circuitry; auto head cleaner. Front-panel A/V input. Jog/shuttle control; slow motion; skip search; index search; linear time counter; 5-language on-screen display; memory backup. 17 x 3⅞ x 14¼ in; 12 lb $950

HV-FX7000 VHS Hi-Fi VCR
3 play/record speeds; 4 video heads; frequency-synthesis tuner; 8 events/30 days programming; 181 channels. HQ circuitry; auto head cleaner. Front-panel A/V input. VCR Plus+; quick-timer recording; slow motion; commercial skip; skip search; index search; on-screen display; multibrand remote control. 17 x 3⅝ x 11½ in; 12 lb $250

EMERSON RADIO

EV-706N VHS Hi-Fi VCR
3 play/record speeds; 4 video heads; frequency-synthesis tuner; 8 events/1 year programming; 181 channels. Digital auto tracking; high-speed rewind. RCA A/V inputs and outputs. 1-min timer backup; quick-start mechanism; trilingual on-screen display; auto power-on/play/rewind/eject; shuttle control; child lock; commercial skip; one-touch recording; index search; remote control. 14⅛ x 3½ x 11 in; 8 lb $230

FISHER

FVH-T668S VHS Hi-Fi VCR
2 play/record speeds; 4 video heads; 8 events/1 year programming; 181 channels. 1-hr memory backup. 2 composite-video inputs (1 front, 1 rear), 1 output; 2 audio inputs, 1 output. 5X, 10X, and 15X search speeds; real-time counter; auto channel set-up; still frame with frame advance; slow motion; fast play with sound; category-titling and play-search function; commercial skip; VCR Plus+; index search; universal remote control with shuttle dial and illuminated keys. Includes 2 AA batteries. Black. 3⅞ x 14¼ x 11⅝ in; 7 lb $200

GO-VIDEO

DDV9700X VHS Dual-Well Hi-Fi VCR
2 play/record speeds; 4 video heads; frequency-synthesis tuner; 8 events/1 year programming; 181 channels. Quasi-S-VHS play; external control port for PCs; complete program record; auto digital tracking; auto head cleaner; proprietary 3-D audio; video-sequencing play and record; 1 recording deck; 1 play-only deck. 2 RCA video and 2 RCA audio inputs. Jog/shuttle on remote; real-time tape counter; index search; skip search; high-speed rewind; multiscene auto editing; on-screen programming; date-and-time stamp; on-screen titler. S/N 68 dB; W&F 0.0005% wrms; THD 0.2%; ch sep 60 dB. 21 x 4 x 15¾ in; 20 lb $850
DDV9700Z. As above, gray bezel $750
Developer's Kit. Windows-based software to program any Go-Video Hi-Fi VCR $100

DDV9600Z VHS Dual-Well Hi-Fi VCR
2 play/record speeds; 4 video heads; frequency-synthesis tuner; 8 events/1 year programming; 181 channels. Proprietary 3-D audio; auto digital tracking; complete program record; video-sequencing play and record; 1 recording deck, 1 play only. 2 RCA video and audio inputs. Real-time tape counter; index search; skip search; high-speed rewind; multiscene auto editing; bilingual on-screen programming; date-and-time stamp; multibrand remote control. Includes batteries. S/N 68 dB; W&F 0.0005% wrms; THD 0.2%; ch sep 25 dB. 21 x 4 x 15¾ in; 20 lb $750

GV-6060 VHS Dual-Well Hi-Fi VCR
2 play/record speeds; 4 video heads; frequency-synthesis tuner; 8 events/1 month programming; 181 channels. Digital picture enhancement; digital auto tracking; auto head cleaner; MTS stereo; video-sequencing play and record; 1 recording deck, 1 play only. 2 RCA video and audio inputs and outputs. Real-time tape counter; index search; skip search; high-speed rewind; synchro-edit and copy; audio-insert edit; bilingual on-screen programming; date-and-time stamp; auto show finder; complete-program record; frame advance. Includes batteries. S/N 68 dB; W&F 0.005% wrms; THD 0.2%; ch sep 60 dB. 14⅝ x 7⅝ x 11 in; 18 lb $699

HITACHI

VTUX717A VHS Hi-Fi VCR
2 play/record speeds; 4 video heads; 8 events/1 year programming; 181 channels. Flying erase head; 19-micron heads; auto picture; closed-caption decoder; 1-hr memory backup. 2 composite-video inputs (1 front, 1 rear), 1 output; 1 audio input and output. 7X and 21X search speeds; real-time counter; auto channel set-up with add/erase function; still frame with frame advance; slow motion; tape-position indicator; audio and video dubbing functions; auto rewind; VCR Plus+ with cable box controller; index search; jog/shuttle control; auto clock set; universal remote control with shuttle dial and illuminated keys. Includes batteries. Black finish. 3¾ x 17 x 14⅞ in $349
VTUX625A. As VTUX717A, no flying erase head; no closed caption decoder. No audio or video Dubbing; no tape-position indicator; shuttle control without jog function. Adds movie advance. 3¾ x 17 x 11 in; 6 lb $249
VTFX624A. As VTUX717A, no movie advance. Titanium hot stamp finish. 3⅞ x 15 x 10⅞ in . . .$219
VTFX633A. As VTFX624A but remote control is not illuminated; without shuttle dial. Adds blank-tape search and enhanced indexing function. Bronze metallic finish. 4½ lb $199
VTFX631A. As VTFX633A, no front A/V inputs; no cable box controller; no auto clock set $179
VTFX630A. As VTFX631A, standard remote control; no VCR Plus+ $159

JVC

The following VCRs all have four 19-micron video heads, 181-channel frequency-synthesis tuners, 2 play and 2 record speeds, 8-event/1-year programming, HG circuitry, and digital picture enhancement.

HR-S9500U S-VHS Hi-Fi VCR
Active Video Calibration; 4-MB frame memory; digital A/V tracking; surge-protection circuitry; flying erase head; audio dubbing; 10-min power backup. 2 audio, 2 S-video inputs, 1 S-video output. VCR Plus+ with cable-box control; audio-recording level control; audio-recording indicator; multilingual on-screen menu with menu button on deck; child lock; jog/shuttle control on remote; DBS tuner control; instant review; tape-position indicator; noiseless variable search with audio at normal speed; auto index; auto daylight saving time; repeat play; commercial advance; movie advance; real-time tape counter; multibrand remote control with fluorescent keys. Horizontal resolution 400 lines; FR 20 Hz-20 kHz; S/N 45 dB. 17⅝ x 4 x 13⅜ in; 11 lb $700
HR-S7500U. As above with 2-MB frame memory. Remote lacks fluorescent keys and jog/shuttle control. 17¼ x 3¾ x 14 in $600

HR-S5400U VHS Hi-Fi VCR
Active Video Calibration; auto tracking. 2 audio inputs; S-video input and output; J terminal computer interface; A/V CompuLink. VCR Plus+ with cable-box control; auto play; insert editing; audio dubbing; shuttle; DBS tuner control; audio level meter; multibrand remote control with fluorescent keys. Horizontal resolution 240 lines; FR 20 Hz-20 kHz; S/N 45 dB. 15¾ x 3¾ x 13½ in; 10 lb . . .$600

HR-S4500U S-VHS Hi-Fi VCR
Digital A/V tracking; surge-protection circuitry; 2 A/V inputs; S-VHS input and output; J terminal computer interface. VCR Plus+ with cable-box control; noiseless variable search with audio at normal speed; movie advance; jog/ shuttle on unit; insert editing; audio dubbing; auto timer recording; one-touch programming; auto play; instant review; DBS tuner control; audio level meters; multibrand remote control with fluorescent keys. Horizontal resolution 400 lines; S/N 45 dB. 16 x 3¾ x 13¾ in; 8 lb . . .$500
HR-S3500U. As above without noiseless variable search with audio at normal speed, insert editing, or audio dubbing $380

HRDD840U VHS Hi-Fi VCR
Flying erase head; Ultra Spec drive with jitter-reduction circuits; oval-cut head system; digital auto tracking; time scan with dynamic drum system. Front-panel gold-plated A/V inputs. VCR Plus+ with cable-box control; audio recording-level control with indicator; audio dubbing; jog/shuttle control on VCR; manual index; instant review; on-screen tape-position indicator; trilingual on-screen color menu; index search; skip search; auto reset real-time counter; auto daylight saving time; auto index; auto clock set; auto picture system; DBS tuner control; multibrand universal remote control; A/V CompuLink. Horizontal resolution 240 lines; FR 20 Hz-20 kHz; S/N 96 dB; W&F 0.005% wrms; THD 1%; dynamic range 90 dB. 3¾ x 15¾ x 13½ in; 10 lb $500

HR-DD750U VHS Hi-Fi VCR
Digital A/V tracking; surge-protection circuitry; Active Video Calibration; 2 A/V inputs. VCR Plus+ with cable control; noiseless variable search with audio at normal speed; movie advance; shuttle; insert editing; audio dubbing; auto timer recording; one-touch programming; auto play; instant review; audio level meters; multibrand remote control. Horizontal resolution 240 lines; FR 20 Hz-20 kHz; S/N 45 dB. 15¾ x 3¾ x 13½ in; 9 lb $330

HR-VP654U VHS Hi-Fi VCR
HQ circuitry; auto tracking; auto picture; surge protection. 2 A/V inputs. VCR Plus+; auto play; movie advance; one-touch programming; auto timer recording; shuttle; instant review; DBS tuner control; tape-position indicator; real-time counter; auto index; slow motion; repeat play; A/V CompuLink; multibrand remote. Horizontal resolution 240 lines; FR 20 Hz-20 kHz; S/N 45 dB. 15¾ x 3¾ x 10¾ in; 6 lb $280
HR-VP650U. As above without instant review or DBS tuner control. 14¼ x 3¾ x 10⅞ in; 6 lb . . .$250
HR-A54U. As HR-VP650U without auto play or movie advance $230

MARANTZ

MV-830 S-VHS Hi-Fi VCR
2 play/record speeds; 4 video heads; 8 events/30 days programming; 125 channels. 2 video inputs; 2 audio outputs. VCR Plus+ with cable-box control; 10-min memory backup; still frame; slow motion; index search; universal remote control. Horizontal resolution 400 lines; FR 20 Hz-20 kHz. 15¾ x 3¾ x 13½ in; 10 lb $699

MV-880 S-VHS Hi-Fi VCR
2 play/record speeds; 4 video heads; 8 events/30 days programming; 125 channels. Comb filter; flying erase head. 4 video inputs; 6 audio outputs. VCR Plus+ with cable-box control; index search;

From AC-3 to zone, the Glossary of technical terms will help you get the most out of the listings. See page 243.

jog/shuttle control on unit and remote; universal remote control. Horizontal resolution 400 lines; FR 20 Hz-20 kHz $599

MITSUBISHI

The following 4-head VCRs all have 2 play/record speeds, 181-channel frequency-synthesis tuners, 8-event/28-day programming, and 19-micron heads.

HS-U790 S-VHS Hi-Fi VCR
Tape-optimization system; auto head cleaner; MTS/SAP decoder; 250X fast-forward/rewind speed; 27X high-speed search; digital dynamic comb filter; switching noise reduction; flying erase head; pre-roll. Active A/V network input and output; 2 rear video inputs; 3 rear video outputs; 1 stereo rear audio input; 1 front-panel A/V input. VCR Plus+ Gold with cable converter control; 30-min timer backup system; auto daylight-saving-time adjustment; zero-counter stop; auto index; 2X play with sound; shuttle control on remote; index search; auto speed programming; one-key programming; one-key programming; proprietary one-touch recording; quick program; commercial skip; forward and reverse 2-speed locking visual search; jog/ shuttle control; dual remote codes; dubbing-mode switch; sharpness control; record level controls; record level meters; multibrand remote control. Includes infrared emitter. Horizontal resolution 400 lines; FR 20 Hz-20 kHz; S/N 90 dBA; W&F 0.005% wrms; THD 0.3%; dynamic range 90 dB; ch sep 60 dB. 16¾ x 3⅝ x 12⅛ in; 10 lb $749

HS-U781 S-VHS Hi-Fi VCR
Rapid-start transport; digital auto tracking; tape-optimization system; HQ circuitry with detail enhancer; S-VHS record and play; 250X fast-forward/rewind speed; audio head switching noise reduction; pre-roll. Front-panel S-video audio input; rear panel S-video audio input; 2 video outputs; 1 S-video output; 2 audio outputs; active A/V Network input/output. Menu system; VCR Plus+ Gold with cable-box and DSS-receiver control, auto setup; elapsed- and remaining-time indicators; one-key programming; one-touch record; quick program; auto speed programming; auto clock set; 30-min timer backup; jog/shuttle on front panel; child lock; high-speed locking visual search; 2X play with sound; commercial advance; zero-counter stop; index marking auto and manual during record; index search; index repeat; still frame; frame advance; slow motion; dual remote codes; auto power-on; one-touch play; power-off eject; multibrand TV remote with jog/shuttle control. Horizontal resolution 400 lines; FR 20 Hz-20 kHz; S/N 90 dBA; W&F 0.005% wrms; THD 0.3%; dynamic range 90 dB; ch sep 60 dB. 16¾ x 3⅝ x 12 in; 10 lb $579

HS-U681 VHS Hi-Fi VCR
Rapid-start transport; digital auto tracking; tape optimization system; HQ circuitry with detail enhancer; 250X fast forward/rewind speed; audio head switching noise reduction; flying erase head; pre-roll. Front-panel A/V input; 2 audio outputs; active A/V Network input/output. Menu system; VCR Plus+ Gold with cable-box and DSS-receiver control and auto setup; A/V network with system 2; elapsed- and remaining-time indicators; child lock; locking visual search; high speed visual search; 2X play with sound; commercial advance; zero rewind; automatic and manual index marking during record; index search; repeat; still frame; frame advance; reverse play; dual remote codes; auto power on; A/V dubbing; auto rewind; multibrand remote with jog/shuttle control. Horizontal resolution 240 lines; FR 20 Hz-20 kHz; S/N 90 dBA; W&F 0.005%; THD 0.3%; dynamic range 90 dB; ch sep 60 dB. 16¾ x 3⅝ x 12 in; 10 lb $549

HS-U590 VHS Hi-Fi VCR
Tape-optimization system; auto head cleaner; MTS/SAP decoder; 250X fast-forward/rewind speed; comb filter; defeatable noise reduction. Active A/V network input and output; front-panel A/V input. VCR Plus+ Gold with cable-box control; 30-min timer backup; auto daylight-saving-time adjustment; zero return; auto index; 27X search speed; 2X play with sound; shuttle control on remote; index search; auto speed programming; one-key programming; proprietary one-touch recording; quick program; commercial skip; 2-speed locking visual search; jog/ shuttle control; dual remote control codes; multibrand remote control. Includes infrared emitter. 16¾ x 3⅝ x 12 in; 10 lb $429

HS-U540 VHS Hi-Fi VCR
Tape-optimization system; auto head cleaner; MTS/SAP decoder; 250X fast-forward/rewind speed; comb filter; defeatable noise reduction. Active A/V network input and output; front-panel A/V input. VCR Plus+; 30-min timer backup; auto-daylight-saving-time adjustment; zero return; auto index; 27X search speed; 2X play with sound; shuttle control on remote; index search; auto speed programming; one-key programming; one-touch recording; quick program; commercial skip; 2-speed locking visual search. 16¾ x 3⅝ x 12 in; 10 lb $379

HS-U440 VHS Hi-Fi VCR
MTS/SAP decoder; 250X fast-forward/rewind speed; comb filter; defeatable noise reduction; tape-optimization system. Front-panel A/V input. 30-min timer backup; auto daylight-saving-time adjustment; zero return; auto index; 27X search speed; 2X play with sound; index search; auto speed programming; one-key programming; one-touch recording; quick program; commercial skip; 2-speed locking visual search; shuttle control on remote; multibrand remote control. Includes batteries for remote. 16¾ x 3⅝ x 12 in; 10 lb $349

HS-U431 VHS Hi-Fi VCR
Rapid-start transport; digital auto tracking; tape-optimization system; HQ circuitry with detail enhancer; 200X fast-forward/rewind speed; audio head switching noise reduction. Rear-panel A/V inputs and outputs; 2 audio outputs. Menu system; auto power save; elapsed- and remaining-time indicators; one-key programming; one-touch record; quick program; auto speed programming; auto clock set; 30-min timer backup; shuttle controls on unit; child lock; high-speed locking visual search; 2X play with sound; commercial skip; zero counter stop; index marking auto and manual during record; index search; index repeat; still frame with frame advance; reverse play; multispeed slow motion; fast play; auto power-on; auto rewind; one-touch play; power-off eject; multibrand TV remote control. Horizontal resolution 240 lines; FR 20 Hz-20 kHz; S/N 90 dBA; W&F 0.005% wrms; THD 0.3%; dynamic range 90 dB; ch sep 60 dB. 15 x 3⅝ x 12 in; 8 lb $279

OPTIMUS BY RADIO SHACK

Model 66 VHS Hi-Fi VCR
3 play/record speeds; 4 video heads; 8-events/1-month programming; 179 channels. Auto tracking; 26-micron double-azimuth heads; video noise-reduction system. Front-panel A/V input. VCR Plus+; channel, date, and time stamp; channel-caption display; index search; auto play; auto play/rewind/eject; real-time counter; 1-min skip; trilingual on-screen programming; auto clock set; auto daylight-saving-time adjustment; memory sentinel; commercial advance; movie advance; freeze frame with frame advance; slow motion; multibrand remote control; child lock. FR 20 Hz-20 kHz; S/N 70 dB. 15 x 3⅝ x 11⅞ in; 8 lb $280
Model 65. As above without VCR Plus+ $250
Model 64. As Model 65 without commercial advance or movie advance $230

PANASONIC

Except as noted, the following VCRs have 4 video heads, quartz-locked 181-channel frequency-synthesis tuners, and 8-event/1-month programming.

PV-S4690 S-VHS Hi-Fi VCR
Digital video signal processor; dynamorphous metal heads; auto head cleaner; Spatializer virtual surround processing; flying erase head. Front-panel A/V input; 5-pin edit jack. VCR Plus+ Gold with cable-box and DSS-receiver control; index search; auto clock set with 24-hr backup; auto daylight-saving-time adjustment; commercial advance; movie advance; shuttle control on unit; assemble editing; one-touch recording; child lock with warning beeper; high-speed search; frame advance; zero return; 1-min skip; auto repeat; channel caption; time stamp; universal remote control. 16⅞ x 3½ x 11½ in; 10 lb $1,100

PV-HD1000 D-VHS Hi-Fi VCR
Digital VCR capable of processing standard (SD) or high definition (HD) signals; IEEE-1394 digital interface. Front-panel A/V input. Auto clock set; remote control. Includes IEEE-1394 digital interface connection cable .....$NA

PV-S7680 S-VHS Hi-Fi VCR
Auto head cleaner; Spatializer virtual surround processing; dynamorphous metal heads; flying erase head with A/V dubbing. Front-panel A/V input; 5-pin editing jack. Index search; trilingual on-screen display; auto clock set with 24-hr backup; auto daylight-saving-time adjustment; shuttle on unit; search; audio level meter; one-touch recording; child lock; warning beeper; high-speed search; frame advance; zero return; 1-min skip; auto repeat; channel caption; time stamp; universal remote control. 16⅞ x 3½ x 11½ in; 10 lb $700

PV-8664 VHS Hi-Fi VCR
Dynamorphous-metal heads; auto head cleaner; Spatializer virtual surround processing; digital auto picture; digital auto tracking; self-diagnostic system. Front-panel A/V input. VCR Plus+ Gold with cable-box and DSS-receiver control; auto clock set with 24-hr backup; auto daylight-saving-time adjustment; commercial advance; movie advance; shuttle; time stamp; channel caption; Program Director; one-touch recording; child lock with warning beeper; auto channel set; frame advance; auto repeat; high-speed search. 16⅞ x 3⅞ x 11¾ in; 10 lb $350

PV-8662 VHS Hi-Fi VCR
Auto head cleaner; Spatializer virtual surround processing; digital auto picture; digital auto tracking; self-diagnostic system. Front-panel A/V input. VCR Plus+ with cable-box and DSS control; index search; trilingual on-screen display; auto clock set with 24-hr backup; commercial advance; movie advance; time stamp; channel caption; Program Director; one-touch recording; child lock with warning beeper; auto channel set; frame advance; high-speed search; auto repeat; universal remote control. 16⅞ x 3⅞ x 11¾ in; 8 lb $300

PV-8661 VHS Hi-Fi VCR
Auto head cleaner; digital auto tracking; self-diagnostic system. Front-panel A/V input. VCR Plus+; index search; trilingual on-screen display; one-touch recording; Program Director; child lock with warning beeper; frame advance; high-speed search; zero return; 1-min skip; auto repeat; channel caption; time stamp; universal remote control. 16⅞ x 3⅞ x 11¾ in; 8 lb $230

PV-S7670 S-VHS Hi-Fi VCR
MTS/SAP decoder; Spatializer virtual surround processing; dynamorphous metal head; chrominance and luminance noise reduction; auto head cleaner; digital auto picture. Front-panel A/V input. VCR Plus+ with cable-box control; index search; auto clock set with 24-hr backup; trilingual on-screen display; one-touch recording; child lock; frame advance; zero return; 1-min skip; auto repeat; channel caption; time stamp; high speed search. 16⅞ x 3⅞ x 11¾ in; 8 lb $230

PV-8451 VHS Hi-Fi VCR
Video head sensor system; digital auto tracking; self-diagnostic system. Front-panel A/V input. VCR Plus+; index search; trilingual on-screen display; one-touch recording; child lock with warning beep-

er; frame advance; zero return; 1-min skip; auto repeat; channel caption; time stamp; auto clock set with 24-hr backup; high-speed search; universal remote control. 15 x 3⅝ x 12¼ in; 8 lb $220
PV-8450. As above without VCR Plus+ $200

PV-8401 VHS Hi-Fi VCR
Digital auto picture; digital auto tracking; self-diagnostic system. VCR Plus+; Program Director; index search; trilingual on-screen display; one-touch recording; child lock with warning beeper; frame advance; high-speed search; zero return; 1-min skip; auto repeat; auto clock set with 24-hr backup; universal remote control. 15 x 3⅝ x 12¼ in; 8 lb . . .$190
PV-8400. As above without VCR Plus+ $180

PV-8200 VHS Hi-Fi VCR
2 video heads. Digital auto tracking. Auto clock set with 24-hr backup; Program Director; self-diagnostic system; index search system; trilingual on-screen display; one-touch recording; child lock with warning beeper; frame advance; zero return; 1-min skip; auto repeat; universal remote control. 15 x 3⅝ x 12¼ in; 8 lb $149

PHILIPS

VR988 S-VHS Hi-Fi VCR
3 play/2 record speeds; 4 video heads; frequency-synthesis tuner; 8 events/1 year programming; 181 channels. 19-micron head; HQ circuitry; digital auto tracking; quick-start mechanism; 21X fast-forward/rewind speed; auto head cleaner; video-stabilizer circuitry. Front- and rear-panel A/V inputs and outputs; S-video inputs and outputs. VCR Plus+ C^3 cable-box control; jog shuttle control on unit; level meters; auto clock set; index search; child lock; variable slow motion; repeat play; trilingual on-screen display; frame advance with still frame; timer backup; skip search; universal remote control. Horizontal resolution 400 lines; FR 100 Hz-12 kHz ±3 dB; S/N 75 dB; W&F 0.005%; THD 0.25%. 8 lb $329

PHILIPS MAGNAVOX

The following VCRs all have 4 video heads, 181-channel frequency-synthesis tuners, 8-event/1-year programming, 3 play and 2 record speeds, digital auto tracking, double-azimuth heads, and a quick-start mechanism.

VRZ464AT VHS Hi-Fi VCR
19-micron heads; HQ circuitry; 21X fast-forward/rewind speed; auto head cleaner. Front- and rear-panel A/V inputs and outputs. VCR Plus+ with cable-box control; shuttle control on front panel; level meters; auto clock set; index search; variable slow motion; repeat play; one-touch recording; auto channel set; real-time counter; daylight saving timer; auto play; auto power-off eject; timer backup; trilingual on-screen display; frame advance with still frame; universal remote control. Horizontal resolution 240 lines; FR 100 Hz-12 kHz ±3 dB; S/N 75 dB; W&F 0.005% wrms; THD 0.25%. 15¾ x 3¾ x 10½ in; 8 lb $229

VR2360AT VHS Hi-Fi VCR
19-micron heads; HQ circuitry; 15X fast-forward/rewind speed; auto head cleaner. VCR Plus+; auto clock set; trilingual on-screen display; repeat play; real-time counter; auto daylight saving time; auto play; auto rewind; auto power-off eject; index search; slow motion; frame advance with still frame; universal remote control. Horizontal resolution 240 lines; FR 100 Hz-12 kHz ±3 dB; S/N 75 dB; W&F 0.005% wrms; THD 0.25%. 14¼ x 3¾ x 10½ in; 8 lb $189

VRZ264AT VHS Hi-Fi VCR
19-micron heads; 21X fast-forward/rewind speed; auto head cleaner. Front- and rear-panel A/V inputs and outputs. VCR Plus+; auto clock set; trilingual on-screen display; repeat play; real-time counter; auto daylight saving time; auto play; auto rewind; auto power-off eject; index search; frame advance with still frame; 10-min timer backup; universal remote control. Horizontal resolution 240 lines; FR 100 Hz-12 kHz ±3 dB; S/N 75 dB; W&F 0.005%; THD 0.25%. 15¾ x 3¾ x 10½ in; 8 lb $189

VRZ362AT VHS Hi-Fi VCR
HQ circuitry; 15X fast-forward/rewind speed; auto head cleaner. Front- and rear-panel gold-plated inputs and outputs. VCR Plus+; auto clock set; bilingual on-screen display; 1-min timer backup; auto channel setup; one-touch recording; repeat play; real-time counter; auto daylight-saving-time; slow motion; auto play; auto rewind; auto power-off eject; index search; skip search; universal remote control. Horizontal resolution 240 lines; FR 100 Hz-12 kHz ±3 dB; S/N 75 dB; W&F 0.005% wrms; THD 0.25%. 15¾ x 3⅝ x 9¼ in; 7 lb $189

VRZ255AT VHS Hi-Fi VCR
19-micron heads; 21X fast-forward/rewind speed; auto head cleaner. Front- and rear-panel A/V inputs and outputs. VCR Plus+; trilingual on-screen display; repeat play; real-time counter; auto daylight saving time; auto play; auto rewind; auto power-off eject; index search; frame advance with still frame; 10-min timer backup; slow motion; universal remote control. Horizontal resolution 240 lines; FR 100 Hz-12 kHz ±3 dB; S/N 75 dB; W&F 0.005% wrms; THD 0.25%. 14¼ x 3¾ x 10½ in; 8 lb $169

VRZ262AT VHS Hi-Fi VCR
HQ circuitry; 15X fast-forward/rewind speed; auto head cleaner. Front- and rear-panel A/V inputs and outputs. VCR Plus+; bilingual on-screen display; time search; 1-min timer backup; auto channel setup; one-touch recording; repeat play; real-time counter; auto daylight saving time; auto play; auto rewind; auto power-off eject; universal remote control. Horizontal resolution 240 lines; FR 100 Hz-12 kHz ±3 dB; S/N 75 dB; W&F 0.005% wrms; THD 0.25%. 14¼ x 3⅝ x 9¼ in; 6 lb $169

PROSCAN

PSVR83 VHS Hi-Fi VCR
3 play/record speeds; 4 video heads; frequency-synthesis tuner; 8 events/1 year programming; 181 channels. Digital auto tracking; HQ circuitry; high-speed rewind; quick-start mechanism; flying erase head; auto head cleaner. 2 gold-plated RCA inputs; gold-plated RCA output. VCR Plus+; auto channel search; auto daylight saving time; auto repeat; bilingual on-screen menus; blank search; commercial advance; DSS-receiver/cable-box control; shuttle control on front panel; one-touch recording; child lock; real-time counter; on-screen programming; index search; XDS compatible; back-lit universal remote with jog/shuttle control. Horizontal resolution 240 lines; FR 20 Hz-20 kHz –3/+1 dB; S/N 70 dB; W&F 0.012% wrms; THD 0.3%; dynamic range 75 dB; ch sep 70 dB. 15½ x 3½ x 12½ in; 10 lb . . .$449
PSVR65. As above, no flying erase head . . .$399
PSVR57. As PSVR65, without commercial advance or XDS compatibility $379

PSVR74 VHS Hi-Fi VCR
3 play/2 record speeds; 4 video heads; frequency-synthesis tuner; 8 events/1 year programming; 181 channels. Double-azimuth heads; HQ circuitry; digital auto tracking; auto head cleaner; digital auto picture; comb filter. Gold-plated front-panel A/V input; gold-plated audio input; gold-plated audio output. VCR Plus+ Gold; auto clock set; shuttle control on front panel; menu system; zero search; 24-hr memory backup; commercial advance; movie advance; multibrand remote control with DSS and cable-box controls. 17 x 3⅝ x 11⅞ in; 8 lb $379
PSVR72. As above without DSS or cable-box control on remote $349
PSVR70. As PSVR72 without commercial or movie advance; VCR Plus+ not VCR Plus+ Gold . . .$329

QUASAR

VHQ860 VHS Hi-Fi VCR
4 video heads; quartz tuner; 8 events/1 month programming; 181 channels. Auto tracking; self-diagnostic system; digital auto picture. VCR Plus+; Program Director; auto daylight saving time; index search; trilingual on-screen display; frame advance; child lock; multibrand TV/cable/DSS remote control. 15 x 3⅝ x 12¼ in; 8 lb $190
VHQ840. As above, no digital auto picture . . .$170
VHQ820. As VHQ820 but with 2 heads and without VCR Plus+ $140

RCA

The following VCRs all have 4 video heads, 181-channel frequency-synthesis tuners, 8-event/1-year programming, 3 play and 2 record speeds, and HQ circuitry.

VR911HF D-VHS Hi-Fi VCR
19-micron video heads; D-VHS record/play when used with compatible RCA DSS unit. Front-panel A/V input. Auto clock set; shuttle control; DSS control; index search; LCD display; back-lit universal remote control. Includes digital cable, remote-control batteries. 15 x 3⅝ x 11 in; 8 lb $699

VR692HF VHS Hi-Fi VCR
Digital auto tracking; digital auto picture. Front-panel A/V input. VCR+ with cable and DSS box control; commercial advance; movie advance; auto clock set; auto repeat; zero search; 24-hr memory backup; back-lit universal remote control. 15 x 3⅝ x 11⅛ in; 8 lb $329

VR636HF VHS Hi-Fi VCR
Digital auto tracking. Front-panel A/V input. VCR Plus+ with cable and DSS box control; auto clock set; index search; 24-hr memory backup; real-time counter; universal remote control. 14⅛ x 3½ x 10¾ in; 8 lb $299

VR645HF VHS Hi-Fi VCR
Digital auto tracking. Front-panel A/V input. VCR Plus+; commercial advance; movie advance; real-time counter; index search; 24-hr memory backup; universal remote control. 14⅛ x 3½ x 10¾ in; 8 lb $299

VR629HFB VHS Hi-Fi VCR
Digital auto tracking. Front-panel A/V input. VCR Plus+; 24-hr memory backup; index search; back-lit universal remote control. 14⅛ x 3½ x 10¾ in; 8 lb $269

VR622HF VHS Hi-Fi VCR
Digital auto tracking; digital auto picture. VCR Plus+; 24-hr memory backup; child lock; zero search; on-screen tape-position indicator. 15 x 3⅝ x 11⅞ in; 8 lb $249

SAMSUNG

VR8808 VHS Hi-Fi VCR
2 play/record speeds; 4 video heads; 8 events/30 days programming; 181 channels; 6-hr memory backup; Diamond Head video head system; year-2000-compliant clock/timer with auto clock set. 2 composite-video inputs (1 front, 1 rear), 1 output; 1 audio input, 2 audio outputs (1 front, 1 rear). 7X and 21X search speeds; real-time counter; auto channel set-up with add/ erase function; still frame with frame advance; slow motion; variable-speed play; auto rewind; VCR Plus+ with cable-box controller mouse, shuttle dial on VCR; skip search in 30-sec increments; tape-remaining display; child-safety door lock; universal remote control with shuttle dial and illuminated keys. Horizontal resolution 230 lines; FR 20 Hz-20 kHz. Dark gray. 3⅝ x 14⅛ x 11½ in; 7 lb $210
VR8708. As VR8808, no VCR Plus+; no shuttle control on VCR $190
VR8608. As VR8808, no VCR Plus+; no shuttle control on VCR; no auto clock set; no front-panel A/V jacks $170
VR8508. As VR8808, no VCR Plus+; no shuttle control on VCR; no auto clock set; no front A/V jacks; standard remote control $160

SANYO

VHR-H538 VHS Hi-Fi VCR
2 play/record speeds; 4 video heads; 8 events/1 year programming; 181 channels; 5X, 10X, and 15X search speeds; real-time counter; auto channel set-up; 5-sec memory backup; auto clock set. Two composite video inputs (1 front, 1 rear); 2 audio inputs; 1 composite video output; 1 audio output. Still frame with frame advance; slow motion; auto rewind; index search; category-titling and play-search functions; commercial skip; variable audio outputs; universal remote control with illuminated keys. Includes 2 AA batteries. Metallic-gray cabinet. 3⅞ x 14¼ x 10¾ in; 7 lb $180
VHR-H518. As above, no front-panel A/V input; standard remote control $170

SHARP

VC-H988U VHS Hi-Fi VCR
2 play/record speeds; 4 video heads; PLL tuner; 8 events/1 year programming; 181 channels. 19-micron video heads; 360X speed rewind; proprietary video enhancement circuitry; MTS stereo; auto head cleaner; auto noise reduction. Front-panel A/V input. VCR Plus+ with cable-box channel control; alphanumeric display; auto daylight saving time; auto play; auto tracking control; zero return; light-up remote pager; auto clock set; digital program search; skip search; instant replay; trilingual on-screen programming; auto play; child lock; universal remote control. Includes batteries for remote. Horizontal resolution 220 lines; FR 20 Hz-20 kHz; W&F 0.005% wrms; dynamic range 90 dB. 14⅜ x 3⅝ x 10⅛ in; 6 lb $250
VC-H986U. As above without light-up remote$240
VC-H985U. As VC-H986U without front-panel A/V input. 14¼ x 3⅝ x 10¼ in; 6 lb $230
VC-H984U. As VC-H985U without VCR Plus+, with front-panel A/V input $220
VC-H982U. As VC-H985U without high-speed rewind, VCR Plus+, remote pager, or automatic clock set $210

SONY

The following VCRs all have 4 video heads, 181-channel tuners, 8-event/1-month programming, 3 play and 2 record speeds, double-azimuth heads, digital auto tracking, an MTS decoder, and Adaptive Picture control.

SLV-R1000 S-VHS Hi-Fi VCR
Auto head cleaner; high-speed rapid-access tape transport. 1 front-panel A/V input; front-panel camcorder inputs. Dual-mode shuttle control; independent A/V insert editing; edit switch; VCR Plus+; auto clock set; skip search; on-screen help; linear counter; electronic tab marker indexing system; synchro edit; RMT-V129 wireless Unicommander remote control; express tuning; command mode VTR 1/2/3 selector; freeze frame with frame advance; variable-speed play, forward, and reverse. Includes Sony Cable Mouse. FR 20 Hz-20 kHz; W&F 0.005% wrms; dynamic range 90 dB. 17 x 4⅝ x 15 in; 10 lb $1,200

SLV-AV100 VHS Hi-Fi VCR/Receiver
Built-in 320-W A/V receiver with Dolby Pro Logic, discrete output transistors, 8-function input selector, digital signal processing with 7 preset acoustic environments, 30 AM/FM presets, and muting switch. Comb filter; high-speed rapid-access tape transport; auto head cleaner. A/V inputs and outputs. VCR Plus+; VTR 1/2/3 selector; search/index; jog/shuttle control on remote; auto clock set; S-Link control; child lock; multilingual on-screen help; one-touch recording; linear counter; commercial skip; tape remaining display; multibrand remote with shuttle control. Includes Sony Cable Mouse. FR 20 Hz-20 kHz; W&F 0.005% wrms; dynamic range 90 dB. 17 x 6¼ x 16¼ in; 29 lb .$499

SLV-M10HF VHS Hi-Fi VCR
Comb filter; auto head cleaner. Front- and rear-panel A/V inputs. VCR Plus+ Gold; sharpness control; multilingual on-screen display/help; one-touch recording; 1-hr timer backup; linear counter; auto preset tuner; child lock; auto clock set; Sony S-Link; index search; multibrand remote with Sony receiver volume control. FR 20 Hz-20 kHz; W&F 0.005% wrms; dynamic range 90 dB. 17 x 4¼ x 11¼ in; 10 lb $449
SLV-M20HF. As above with proprietary electronic program guide $499

SLV-998 VHS Hi-Fi VCR
Comb filter; auto head cleaner; flying erase heads. Front- and rear-panel A/V inputs. VCR Plus+ Gold; sharpness control; multilingual on-screen display/help; one-touch recording; 1-hr timer backup; linear counter; auto preset tuner; child lock; auto clock set; Sony S-Link; index search; A/V insert editing; VTR 1/2/3 selector; multibrand remote control with joystick control, shuttle controls, fluorescent buttons, Sony receiver volume control, and cable-box control. FR 20 Hz-20 kHz; W&F 0.005% wrms; dynamic range 90 dB. 17 x 4¼ x 11¼ in; 10 lb $399

SLV-798 VHS Hi-Fi VCR
Comb filter; auto head cleaner. Front- and rear-panel A/V inputs. VCR Plus+ Gold; sharpness control; multilingual on-screen display/help; one-touch recording; 1-hr timer backup; linear counter; auto preset tuner; child lock; auto clock set; Sony S-Link; index search; multibrand remote control with joystick control, fluorescent buttons, Sony receiver volume control, and cable-box control. FR 20 Hz-20 kHz; W&F 0.005% wrms; dynamic range 90 dB. 17 x 4¼ x 11¼ in; 10 lb $349

SLV-788HF VHS Hi-Fi VCR
Comb filter; auto head cleaner. Front- and rear-panel A/V inputs. VCR Plus+; sharpness control; multilingual on-screen display/help; one-touch recording; 1-hr timer backup; linear counter; auto preset tuner; child lock; auto clock set; Sony S-Link; multibrand remote control with joystick control, Sony receiver volume control, and cable-box control. FR 20 Hz-20 kHz; W&F 0.005% wrms; dynamic range 90 dB. 17 x 4¼ x 11¼ in; 10 lb $329

SLV-778HF VHS Hi-Fi VCR
Comb filter; auto head cleaner. Front- and rear-panel A/V inputs. VCR Plus+; sharpness control; multilingual on-screen display/help; one-touch recording; 1-hr timer backup; linear counter; auto preset tuner; child lock; shuttle controls on unit; auto clock set; multibrand remote control. FR 20 Hz-20 kHz; W&F 0.005% wrms; dynamic range 90 dB. 17 x 4¼ x 11¼ in; 10 lb $299

SLV-688HF VHS Hi-Fi VCR
Comb filter; auto head cleaner. Front- and rear-panel A/V inputs. VCR Plus+; sharpness control; multilingual on-screen display/help; one-touch recording; 1-hr timer backup; linear counter; auto preset tuner; child lock; index search; multibrand remote control. FR 20 Hz-20 kHz; W&F 0.005% wrms; dynamic range 90 dB. 14 x 3¾ x 11¼ in; 8 lb $279

SLV-678HF VHS Hi-Fi VCR
Comb filter; auto head cleaner. Sharpness control; multilingual on-screen display/help; one-touch recording; 1-hr timer backup; linear counter; auto preset tuner; child lock; multibrand remote control. FR 20 Hz-20 kHz; W&F 0.005% wrms; dynamic range 90 dB. 14 x 3¾ x 11¼ in; 8 lb $249

TOSHIBA

M784 VHS Hi-Fi VCR
2 play/record speeds; 6 video heads; frequency-synthesis tuner; 6-event/1-year programming; 181 channels. Digital noise reduction; V3 Pro-Drum technology; color-signal enhancement; 19-micron video head; MTS/SAP tuner with dbx noise reduction; auto head cleaner; ion-coated heads; digital tracking; auto speed select. Dual A/V inputs. VCR Plus+ C³ cable-box control; XDS with auto clock set; 4-color icon menus; high-speed rewind/fast-forward; quad-mode shuttle dial; full-loading quick-access system; multilingual on-screen displays; one-touch record; center-load system; fluorescent display; universal remote. 17 x 3⅝ x 12½ in; 10 lb $500
M764. As above without digital noise reduction or color-signal enhancement $350
M774. As M764, no quad-mode shuttle dial ..$330
M754. As M774, no VCR Plus+; analog-clock timer programming $280

M684 VHS Hi-Fi VCR
2 play/record speeds; 4 video heads; frequency-synthesis tuner; 6 events/1 year programming; 181 channels. 4-head double-azimuth design; MTS/SAP decoder with dbx NR; digital tracking; auto speed select; auto head cleaner. Dual A/V inputs. VCR Plus+ C³ cable-box control; DSS control; XDS with auto clock set; icon-based menus; high-speed fast-forward/rewind; full-loading quick-access system; multilingual on-screen displays; auto play; one-touch record; center-load system; fluorescent display; universal remote. 15 x 3¾ x 12⅞ in; 9 lb $250
M674. As above without auto head cleaner, C³ cable-box control, DSS control, or XDS $230
M653. As M674 without auto speed select, dual A/V inputs, or VCR Plus+; with V3 Pro Drum technology, ion-coated heads, auto head cleaner, and bilingual on-screen programming. 15⅜ x 3⅝ x 11 in; 9 lb $220
M624. As M653 without V3 Pro Drum technology, high-speed rewind/fast-forward, bilingual menu system, or icon-based on-screen displays. 14⅝ x 3⅝ x 11 in; 9 lb $200

ZENITH

VRA424 VHS Hi-Fi VCR
3 play/2 record speeds; 4 video heads; frequency-synthesis tuner; 8 events/1 year programming; 181 channels. Auto head cleaner; auto digital picture tracking; HQ circuitry; auto tape-speed adjustment; MTS/SAP decoder. Front- and rear-panel composite-video inputs; front- and rear-panel audio inputs; composite video output. VCR Plus+ C³ cable-box control; one-touch recording; trilingual on-screen display; slow motion; index search; voice-prompted menu system; commercial skip; real-time counter; auto channel search; auto clock set; front-panel display; LED clock display; lighted-icon front-action buttons; jog/shuttle on remote; multibrand remote control. Horizontal resolution 230 lines; FR 22 Hz-30 kHz; S/N 88 dB; dynamic range 79 dB; ch sep 67 dB. 14⅛ x 3⅝ x 11⅛ in; 8 lb $249
VRA423. As above without auto clock set, front-panel display, C³ cable-box control, or jog/shuttle on remote $239
VRA422. As VRA423 without VCR Plus+ or front-panel inputs and outputs $219
VRA421. As VRA422 without auto clock set, LED clock display, lighted-icon front-action buttons, or multibrand remote control $209

All of the information in these listings is provided by the manufacturers. See the Directory starting on page 233 for mailing addresses, phone numbers, and Web addresses.

"Clearly One Of The Best." -Stereo Review

MovieWorks® *5.1* is a no-compromise surround sound speaker combination that is ideal for both music and home theater systems. Designed by Audio Hall of Fame member and Emmy Award Winner Henry Kloss (founder of AR, KLH & Advent), it includes high-performance main speakers, a wide-range center speaker, MultiPole™ surround speakers (switchable from dipole to bipole operation) and our *awesome* Powered Subwoofer.

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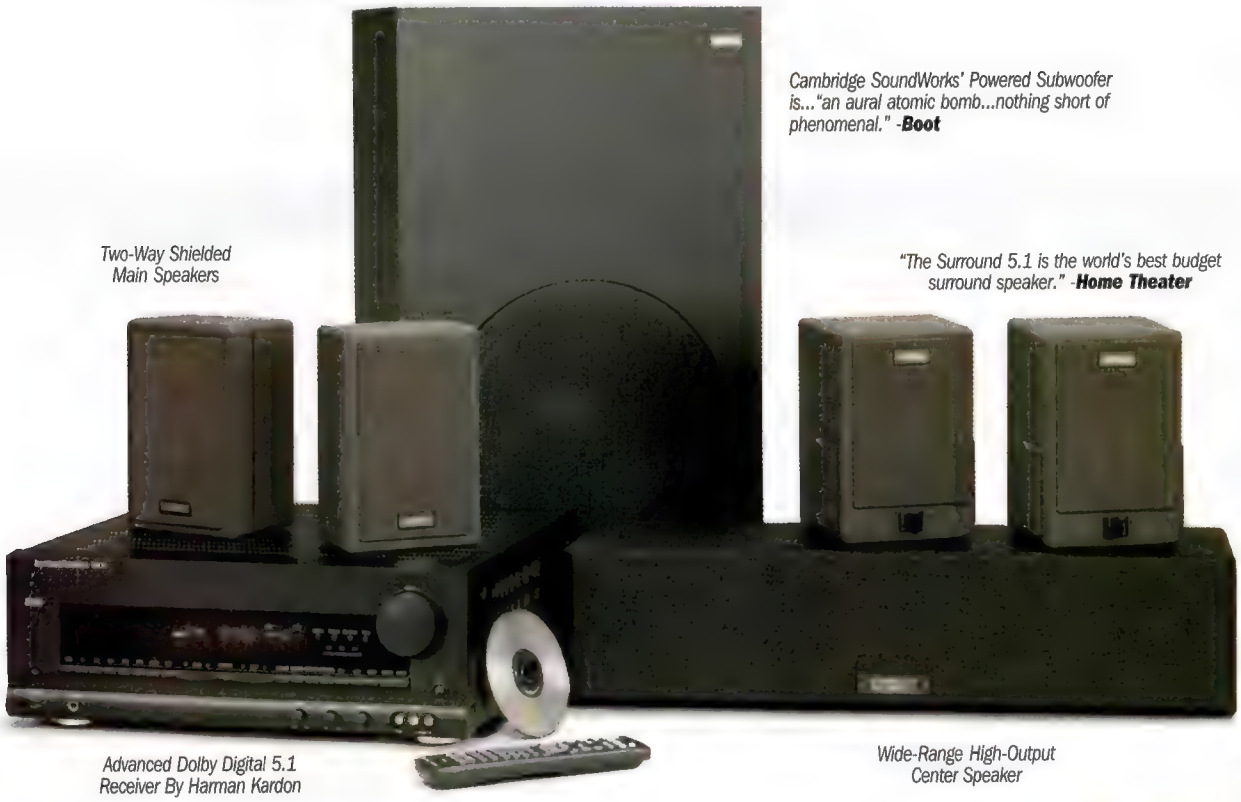

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Tuners

Tired of mediocre FM receiver performance? Consider a separate tuner.

While receivers dominate the market, separate tuners are preferred by radio listeners who want the best FM performance. Many receiver manufacturers pay little attention to the tuner section of their receivers and, in general, receiver tuners today don't work as well as those of, say, 20 years ago.

As you read the product listings you'll come across some specifications you may not be familiar with. See the Glossary on page 243 for definitions, but here's what's important:

• *50-dB quieting sensitivity*. If you want quiet, clean stereo even during soft music passages, look for the lowest numbers here.

• *AM rejection* and *capture ratio*. These are important specifications for urban areas affected by "multipath" distortion, where multiple "ghosts" of a signal reflected by buildings, etc. are received at slightly different times. The higher a tuner's AM-rejection spec, the better it can ignore changes in signal strength caused by multipath. A good capture ratio — a measure of a tuner's ability to "lock" onto, or capture, a signal in the presence of another, weaker signal on the same frequency — is also effective in combating multipath because the weaker components of a multipath signal can be considered co-channel interference. The lower the capture ratio, the better.

• *Adjacent-channel* and *alternate-channel selectivity*. These specs are also important in urban areas with crowded FM bands. If you're often bothered by interference from signals 200 or 400 kHz away from the desired signal, look for the highest numbers.

Of course, a tuner is more than just its specifications. Other features can make a tuner easier or more enjoyable to use despite the numbers. For example, a large number of station presets or a remote control are things that some listeners just can't live without. Still other features can make a tuner perform better. For example, a bandwidth control can reduce adjacent- or alternate-channel interference and make stereo reception quieter at the expense of frequency response, while stereo blend or a stereo/mono switch can make reception quieter at the expense of stereo channel separation.

— Brian Fenton

ONKYO INTEGRA T-9090II

Tuners

ACCUPHASE
T-109 FM Tuner
32 FM presets. Quartz-locked frequency-synthesis design; 8-bit microprocessor; double-tuned front end. XLR outputs; fixed and variable-level RCA outputs. Nonvolatile memory; switchable MPX filter; switchable selectivity; mono/stereo switch; output-level control; muting switch; signal-strength meter; remote control. FM: 50-dB quieting sens 37 dBf stereo; S/N 85 dBA at 80 dBf; THD 0.04% at 1 kHz stereo; ch sep 50 dB at 1 kHz stereo. 18¾ x 5½ x 16 in; 21 lb $2,995

AMC
T-7 AM/FM Tuner
30 AM/FM presets. Remote-control tuning, presets, and band; center-tune indicator; mono switch. FM: AM Rej 60 dB; cap ratio 1.50 dB; alt-ch sel 65 dB; S/N 74 dB; THD 0.08% at 1 kHz, 0.3% at 100 Hz-6 kHz; ch sep 50 dB. AM: S/N 45 dB; THD 0.5%. Black. 17 x 3½ x 13 in; 11 lb $400

APS
T-1 AM/FM Tuner
40 AM/FM presets. Absolute Linear Phase IF amplifier (Alpha) circuitry; PLL digital tuning. Auto scan; 3-way multistatus memory; stereo/mono switch; stereo blend control. FM: 50-dB quieting sens 38 dBf; AM Rej 58 dB; cap ratio 1.5 dB; adj-ch sel 40 dB; alt-ch sel 85 dB; S/N 75 dB; THD 0.1%; ch sep 55 dB at 1 kHz. AM: S/N 50 dB. 17⅛ x 3 x 11 in; 8 lb $595

T-2 AM/FM Tuner
20 AM/FM presets. PLL digital tuning. RCA line-level outputs. Auto scan; stereo/mono switch; stereo blend control; fluorescent display; signal-lock indicator. FM: 50-dB quieting sens 37 dBf; AM Rej 45 dB; cap ratio 1.5 dB; adj-ch sel 20 dB; alt-ch sel 80 dB; S/N 75 dB; THD 0.15%; ch sep 50 dB. AM: S/N 40 dB. Black. 14¼ x 3½ x 9¾ in; 6 lb $295

ARCAM
Alpha 8 AM/FM Tuner
24 AM/FM presets. 2 outputs. Remote control. FM: cap ratio 1.5 dB; alt-ch sel 60 dB; S/N 68 dB. AM: S/N 45 dB. Black. 17 x 3⅜ x 11½ in $549
Alpha 7. As above without remote control. Upgradable to Alpha 8 .....$449

AUDIOLAB
Model 8000T AM/FM Tuner
39 AM/FM presets. Discrete front end; double conversion FM IF; 9th-order elliptic IC birdie filter; rotary optical digital encoder; microprocessor control; auto 20/60 dB audio muting. Tuning in 25-kHz steps; AM and FM wide/narrow bandwidth selection; signal-strength meter; independent mono and mute switches; LCD $1,195

CLASSÉ
Tuner 1 FM Tuner
80 FM presets. RCA and XLR outputs. Full-function remote control; direct-access tuning; preset scan. FM: S/N 70 dB; THD 0.1%; ch sep 40 dB at 1 kHz. Satin black or silver faceplates. 5-yr warranty. 19 x 3 x 10 in; 12 lb $1,295

CREEK
T43 AM/FM Tuner
29 AM/FM presets. Dual-conversion tuner. Rotary tuning knob; full-function remote control. FM: 50-dB quieting sens 29 dBf; cap ratio 1.50 dB; alt-ch sel 77 dB; S/N 69.2 dB; THD 0.2%; ch sep 37 dB at 1 kHz. AM: THD 0.9%. 16½ x 2½ x 8 in $695

DENON
TU-1500RD AM/FM Tuner
40 AM/FM presets. 4-gang tuning design. RDS reception with radio text display; alphanumeric pre-

Tuners

set naming; rotary tuning knob; infrared remote sensor. FM: 50-dB quieting sens 37.5 dBf stereo; cap ratio 1.5 dB; S/N 82 dB mono, 78 dB stereo; THD 0.8% mono, 0.12% stereo; ch sep 50 dB at 1 kHz. Black. 17⅛ x 3 x 9½ in; 8 lb $375

TU-280 AM/FM Tuner
30 AM/FM presets. Quartz-locked digital frequency-synthesis design; MOSFET RF stages. IS-system remote-control compatibility. FM: S/N 79 dB mono, 74 dB stereo; THD 0.1% mono, 0.2% stereo; ch sep 40 dB at 1 kHz. Black. 17⅛ x 3 x 9½ in; 6 lb . . .$275

FANFARE
FTA-1 AM/FM Tuner
8 AM/FM presets. Modular circuit construction. 75-ohm antenna input; XLR output; RCA output. Station lock; scan function for stereo programming; replaceable faceplate; full-function remote control. FM: AM Rej 80 dB; cap ratio 1.2 dB; adj-ch sel 30 dB; alt-ch sel 90 dB; S/N 80 dB; THD 0.25; ch sep 40 dB at 1 kHz. AM: S/N 60 dB; THD 0.5%. Black, silver, or gray faceplate. 3-yr warranty. 19 x 3½ x 10 in; 15 lb $1,395

JOLIDA
JD 401A/TU 9608B Tube AM/FM Tuner
20 AM/FM presets. 2 12AX7 vacuum tubes in output stage; PLL circuitry; frequency-synthesis design; noise-reduction circuitry. Auto scan; power-off memory function; LED display. FM: 50-dB quieting sens 30 dB; AM Rej 30 dB; cap ratio 3.0 dB; THD 0.5%. AM: S/N 46 dB; THD 0.5%. Black. 17 x 3 x 11½ in; 9 lb $350

LINN
Kremlin FM Tuner
80 FM presets. Screened circuitry; two parallel high-level mixers; 13-stage IF filter; PLL demodulator; oscillator with shorted-transmission-line coaxial resonator; switching-mode power supply. 2 F-connector RF inputs; 2 line-level outputs; remote control jack. Adjustable mute/scan threshold with memory; auto/manual scan; signal-strength meter; software upgradable $4,400

LUXMAN
T-353L AM/FM Tuner
30 AM/FM presets. Digital PLL frequency-synthesis design; optimum-frequency location via computer analysis; line-phase sensor; Star circuitry. System bus connection. Selectable strongest-station preset storage; muting-level switch; auto seek and scan; mono/stereo switch; turn-on and sleep timers; fluorescent display. FM: AM Rej 62 dB; cap ratio 1.5 dB; S/N 73 dBA at 65 dBf stereo; ch sep 50 dB at 1 kHz. AM: S/N 54 dB. Black or champagne finish $449

MAGNUM DYNALAB
MD-108 Tube FM Tuner
Two N-channel dual-gate MOSFET; discrete analog mechanism; 5-stage analog tunable front end amplification. 2 analog inputs; 1 digital input; 2 antenna inputs; RCA outputs; XLR outputs. 3 bandwidth settings; double balanced mixer; multipath meter; signal-strength meter; quad matrix tube for center-tune indicator; analog tuning. FM: 50-dB quieting sens 20 dBf; AM Rej 70 dB; cap ratio 1.50 dB; adj-ch sel 48 dB; alt-ch sel 80 dB; S/N 80 dB; THD 0.1%; ch sep 50 dB at 1 kHz. Anodized black, gold, or silver finish. 19 x 5 x 16 in; 40 lb $5,500

Prices given are "list."
Dealer prices may vary.

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Tuners

Etude FM Tuner
Discrete analog technology; 4-stage analog tunable front-end amplification; N-channel dual-stage MOSFET. RCA outputs. Multipath meter; signal-strength meter; center-tune indicator; wide/narrow IF bandwidth control; stereo blend control; analog tuning. XLR outputs optional. FM: 50-dB quieting sens 34 dBf; AM Rej 70 dB; cap ratio 1.50 dB; adj-ch sel 30 dB; alt-ch sel 80 dB; S/N 80 dB; THD 0.18%; ch sep 50 dB at 1 kHz. Anodized black, silver, or gold finish. 19 x 3½ x 13 in $1,350

FT-101A FM Tuner
Discrete analog technology; 4-stage analog tunable front-end amplification. Gold-plated RCA outputs; gold-plated FM antenna connector. Multipath meter; center-tune indicator; signal-strength meter; analog tuning; stereo blend control; stereo/mono switch; wide/narrow IF bandwidth control. FM: 50-dB quieting sens 34 dBf; AM Rej 70 dB; cap ratio 1.50 dB; adj-ch sel 25 dB; alt-ch sel 80 dB; S/N 75 dB; THD 0.18%; ch sep 60 dB. Anodized black, silver, or gold finish. 19 x 3½ x 13 in; 12 lb $925

FT-11 FM Tuner
3 FM presets. Full-blend circuit; 4-stage analog tunable front-end amplification. Gold-plated RCA outputs; gold-plated FM antenna connector. Ten-turn analog tuning system; pushbutton selector. FM: 50-dB quieting sens 35.3 dBf; AM Rej 70 dB; cap ratio 1.50 dB; adj-ch sel 14 dB; alt-ch sel 60 dB; S/N 75 dB; THD 0.3%; ch sep 50 dB at 1 kHz. Anodized black. 17 x 2½ x 7 in; 10 lb $575

MARANTZ

ST-17 AM/FM Tuner
60 AM/FM presets. Dual antenna input; analog output. Alphanumeric naming of station. FM: 50-dB quieting sens 25 dBf; adj-ch sel 65 dB; alt-ch sel 65 dB; S/N 73 dB; THD 0.08%; ch sep 55 dB. AM: S/N 52 dB; THD 0.2%. Black. 3-yr warranty. 18 x 3⅜ x 12½ in; 15 lb $599

ST-46 AM/FM Tuner
30 AM/FM presets. System remote control jacks. Scan tuning; fluorescent display; alphanumeric labeling of station presets; remote control. FM: cap ratio 1 dB; alt-ch sel 65 dB; S/N 80 dB mono, 73 dB stereo; THD 0.2% stereo; ch sep 45 dB. 3-yr warranty. 16¾ x 3⅜ x 11⅝ in; 7 lb $250

McINTOSH

MR7084 AM/FM Tuner
50 AM/FM presets. Spatial circuit to modify frequency and phase response. Preset scan; all-preset-clear button; remote control through current McIntosh remote-controlled products. FM: adj-ch sel 70 dB; THD 0.08% $1,500

MYRYAD

MT-100 FM Tuner
3-stage linear-phase IF strip; low-distortion dual discrimination; low-noise power supplies. Remote control of all functions using Myryad system remote. FM: S/N 74 dB; THD 0.2%; ch sep 45 dB. Black and Silver. 17 x 4 x 12 in; 13 lb $999

NAD

S400 FM Tuner
30 FM presets. Individual MOSFET RF stages for each antenna input; tunes in 25 kHz increments for precise station lock. 2 selectable antenna inputs; RCA output. Alphanumeric preset naming; NAD link; FM auto blend; wide/narrow IF switch; remote control. FM: 50-dB quieting sens 36 dBf; cap ratio 1.5 dB; S/N 70 dB; THD 0.2%. Aluminum chassis with smooth sandblast. 17¾ x 2⅝ x 11¼ in; 10 lb $999

C440 AM/FM Tuner
30 AM/FM presets. MOSFET RF stages; tunes in 25 kHz increments for precise station lock. RCA output. 8-character alphanumeric display; scan tuning; preset scan; FM blend; FM interstation muting; NAD link. FM: 50-dB quieting sens 36 dBf; cap ratio 2.5 dB; S/N 70 dB; THD 0.15%; ch sep 45 dB. AM: S/N 40 dB; THD 0.7%. Classic NAD gray. 17⅛ x 3¾ x 11½ in; 8 lb $299

NAIM

NAT-01 FM Tuner
Progressive stereo-to-mono blend; separate power supply. Automatic bandwidth selection; digital frequency display increases in brightness to indicate signal strength. 11¾ x 3 x 8 in $3,700
NAT-02. As above, integral power supply ...$2,350

NAT-03 FM Tuner
Toroidal transformer; slim-line design $1,250

ONIX

TU39 FM Tuner
Alt-ch sel 30 dB (wide), 100 dB (narrow); AM suppression 70 dB. 17 x 3 x 13 in $1,895
T/SOAP. Power supply for TU39 .....$145
T/Lead. Lead from power supply to tuner $45

ONKYO

Integra T-9090II FM Tuner
20 FM presets. Two antenna inputs. Auto/manual reception-optimization system to select A/B antenna and local/DX; wide/narrow/super-narrow IF bandwidth, high-blend and mono/stereo; preset scan; strongest-station memory; timer; FM fine tuning; adjustable output level; digital display and signal-strength meter; remote control. FM: cap ratio 1.0 dB; alt-ch sel 95 dB narrow; S/N 95 dB mono; THD 0.009%; ch sep 55 dB wide. Wood side panels. 18¼ x 4⅛ x 15¼ in; 19 lb $789

Integra T-4711 AM/FM Tuner
40 AM/FM presets. Radio Data System (RDS); rotary tuning. 4-group memory; 25-kHz step tuning; 10-segment signal-strength meter; 4-mode timer function; AccuClock. Gold cabinet $599
As above, black cabinet $549

T-4310R AM/FM/RDS Tuner
30 AM/FM presets. RDS reception; auto reception-optimization system. RDS program search and alphanumeric text display; battery-free memory backup; 6 preset groups; direct station access; auto-scan tuning. FM: 50-dB quieting sens 36.1 dBf; cap ratio 1.5 dB; S/N 66 dB; THD 0.2%. Black. 18 x 3⅜ x 12½ in; 8 lb $280

T-4210 AM/FM Tuner
40 AM/FM presets. Auto reception-optimization system; MOSFET front end. Battery-free memory backup; 6 preset groups; direct station access; auto-scan tuning; Onkyo RI-system control compatibility. FM: cap ratio 1.5 dB; alt-ch sel 50 dB; S/N 73 dB mono; THD 0.1%; ch sep 40 dB. AM: S/N 18 dB. 18 x 3 x 12⅛ in; 8 lb $200

PARASOUND

T/DQ-1600 AM/FM Tuner
20 AM/FM presets. Quartz-locked digital frequency-synthesis design. External-remote-control connector; gold-plated RCA jacks. Remote control. FM: 50-dB quieting sens 37.2 dBf; adj-ch sel 80 dB; ch sep 50 dB $385

PERREAUX

TU6 Classic AM/FM Tuner
20 AM/FM presets. Dual gate MOSFET front end; precise digital tuning; 4 separately regulated power supplies. Standby; auto tune; band select; rear mounted on/off switch; infrared remote control. FM: S/N 70 dB; THD 0.3%; ch sep 40 dB. Chrome finish. 19 x 3½ x 18 in $1,695
TU6 Professional. As above, black $1,295

PIONEER

Elite F-93 AM/FM Tuner
Super-narrow FM IF-bandwidth setting. FM: 50-dB quieting sens 36.2 dBf stereo; AM Rej 80 dB; cap ratio 1 dB; alt-ch sel 85 dB super narrow; S/N 88 dB stereo at 80 dBf; ch sep 60 dB at 1 kHz. AM: S/N 50 dB. 18 x 4⅛ x 13⅞ in $900

REVOX

E-460/Exception FM Tuner
50 AM/FM presets. 75-ohm antenna input. RDS reception with scrolling radio text display. FM: 50-dB quieting sens 32 dBf; AM Rej 72 dB; cap ratio 0.5 dB; adj-ch sel 50 dB; alt-ch sel 50 dB; S/N 80 dB; THD 0.07%; ch sep 43 dB at 1 kHz. Silver or black finish. 19 x 5 x 16 in; 21 lb $3,500

S26 Elegance FM Tuner
35 FM presets. RDS reception; signal-strength indication. 75-ohm antenna/cable input. Cable/antenna selector; manual/auto scan tuning; remote control. FM: 50-dB quieting sens 36.8 dBf; AM Rej 70 dB; cap ratio 1.50 dB; adj-ch sel 75 dB; alt-ch sel 75 dB; S/N 70 dB; THD 0.7%. Black or silver-brushed aluminum. 17 x 3 x 11 in; 9 lb $995
S28. Remote control for above. $75

ROTEL

RT-940AX AM/FM Tuner
20 AM/FM presets. Mute/mono switch; bar-graph signal-strength display; remote control. FM: 50-dB quieting sens 34.5 dBf; cap ratio 1.5 dB; alt-ch sel 63 dB; S/N 70 dB. 17⅜ x 2⅞ x 11¾ in ...$350
RT-935AX. As above, no remote control $270

SONY

ST-SA5ES AM/FM Tuner
40 AM/FM presets. Frequency-synthesis design; optically sensed rotary tuning; antenna attenuator to prevent distortion. 2 antenna inputs; coaxial FM input. High-blend switch; preset scan; auto scan tuning; alphanumeric preset naming; remote-controllable by some Sony components. A/B antenna selection; 10-segment signal-strength meter. FM: S/N 100 dB mono, 92 dB stereo; ch sep 70 dB at 1 kHz. 5 yr warranty. 17 x 4 x 14⅛ in; 13 lb $800

ST-SE200 AM/FM Tuner
30 AM/FM presets. Frequency-synthesis design. Control S input for Sony multiroom systems. Alphanumeric preset naming; 10-segment signal-strength meter. FM: S/N 80 dB mono, 75 dB stereo. 17 x 3¼ x 11¾ in; 5 lb $200

TANDBERG

TPT 4031 FM Tuner
16 FM presets. Class A audio circuits. FM: cap ratio 1.0 dB; alt-ch sel 100 dB. 17¼ x 3¼ x 13¾ in; 11 lb $1,599

THORENS

TRT 2000 AM/FM Tuner
59 AM/FM presets. Switchable input sensitivity. FM: S/N 74; THD 0.38%; ch sep 60 dB. 8¼ x 3⅜ x 13⅜ in; 9 lb $1,300

YAMAHA

TX-950 AM/FM Tuner
40 AM/FM presets. Computer Servo Lock tuning; digital fine tuning. 6-way multistatus station memory; high-blend switch. FM: 50-dB quieting sens 15.1 dBf; alt-ch sel 85 dB; S/N 96 dB. AM: S/N 50 dB. 17⅛ x 3 x 12⅝ in; 8 lb $429

TX-492 AM/FM Tuner
40 AM/FM presets. IF count synthesizer; rotary encoder tuning; high-gain AM loop antenna. Auto station memory; preset editing; 3-way multistatus memory; 20-segment signal-quality meter. 17⅛ x 6⅛ x 13⅜ in; 9 lb $199

Receivers

These multifunction components are the cornerstones of most stereo and home-theater systems.

The American love affair with "do-everything" receivers is alive and well. And why not? Receivers can do everything that a stack of "separates" does, while leaving enough cash in the piggy bank to buy speakers, source components, and even some CDs. Whether it's a straight stereo receiver or, far more typically, an audio/video (A/V) model, a receiver packs a lot of bang for the buck.

Purists blanch at the thought of combining a tuner, preamplifier, and power amplifier in one package, and the very idea of audio and video circuitry in the same box gives them the heebie-jeebies. But when all is said and done, receivers usually work very well. Yes, separate components *can* outperform a receiver, but there's no guarantee. A topflight receiver will usually beat the pants off of a pedestrian stack of separates, and it can be far easier to use as well.

What should you look for when choosing a receiver? Well, your first decision is whether to buy an "old-fashioned" stereo receiver or an A/V model — one that switches video signals, does surround-sound decoding, and provides usually five channels of amplification to drive multiple speakers. If plain stereo is your preference, you'll find that A/V receivers are so popular today, there are relatively few two-channel receivers to choose from. And, unfortunately, these are likely to be stripped-down models with relatively modest power capability and less-than-stellar specifications. That doesn't necessarily make a stereo receiver a poor choice, however. There's no point in paying for surround-sound decoding, multiple power amplifiers, and video-switching circuits if you'll never use them. And not every music system has to boast the best ratings money can buy, either.

Combine a stereo receiver with a decent pair of efficient speakers and a good CD player, and you'll have a satisfying system for music playback in either your main listening room or a secondary room. But a good A/V receiver and a multichannel speaker system can be even more satisfying for music while enabling you to enjoy movies and video programs in surround sound as well.

Ins and Outs

The question uppermost in the minds of most receiver shoppers is, how much power do I need? We'll get to that, but let's start with some things that are often more critical. First, the inputs: How many do you need, and what type should they be? Of course, only you can tell how many inputs you need, but give serious consideration not only to your present needs but to your future needs as well. And that advice applies equally to the type of inputs, both video and audio.

The better A/V receivers offer both S-video and standard composite-video jacks for every video input, but many limit the number of S-video inputs, and some have none at all, so be certain there are enough to meet your needs. If the receiver has even one S-video input, it will have a corresponding S-video output to feed the TV set or monitor; all A/V receivers have a composite-video output. Both types of output must be connected to the monitor if you intend to use both S-video and standard program sources. If you have an S-VHS or Hi8 VCR, check if the receiver has an S-video record loop.

TECHNICS SA-AX720 DOLBY PRO LOGIC RECEIVER

If you still listen to vinyl records, make sure the receiver has a phono preamp — not all do these days! But most people today will be more concerned with the number and type of digital audio inputs.

The Digital Connection

Most A/V receivers now do surround-sound decoding and other signal processing in the digital domain, but they'll have digital in-

puts only if they can decode digital source material such as the PCM or DTS bitstreams from CDs and the Dolby Digital bitstreams from DVD players, digital TV set-top boxes, and even some DSS receivers.

There are two main ways to convey digital data from one component to another, coaxial or fiber-optic cable. Both work equally well, but they're not interchangeable, and not all gear has both kinds. If your receiver has only coaxial digital inputs and all of your digital program sources have only optical outputs, you're out of luck unless you spend extra money for an outboard optical-to-coaxial converter. (Most digital audio optical connectors use plastic fibers and follow the Toslink standard, but some high-end gear uses glass fibers and follows the AT&T ST standard. Toslink and ST connectors are not interchangeable.)

DENON AVR-2700 DOLBY DIGITAL RECEIVER

If you're seriously interested in home theater, you'll want a 5.1-channel Dolby Digital (AC-3) decoder in your receiver. Dolby Digital affords far better sound than the matrixed Dolby Pro Logic system, which is the bare minimum you should accept today. At present, Dolby Digital encoding is used in DVDs and some laserdiscs, and it is the standard for the new digital TV system. To extract Dolby Digital sound from laserdiscs, you'll need a suitable player. Most of these output a radio-frequency (RF) Dolby Digital signal, which requires demodulation before decoding. Sometimes a demodulator is built into the player, and some receivers have built-in demodulators. You can also purchase an RF demodulator separately and feed the signal it generates to your receiver for decoding.

Usability and Power

There are numerous other questions to ask when selecting a receiver. How good are the on-screen menus? Can you figure out the menus and controls without constantly referring to the manual? For that matter, can you understand the manual? Is the remote control easy to use? Is it illuminated so that you can find the controls you want in a darkened room? Are the labels on the front panel legible? If there are tone controls, can they be bypassed ("Tone Defeat")? What are the recording facilities for both audio and video? Are there line-level preamp outputs so that you can add an external power amplifier or two if needed? Are there preamp outputs for all five main Dolby Digital channels or only for the front three? Or even just the front left and right? Are there enough tuner presets for your needs?

Some A/V receivers deliver more power to the front channels than to the surrounds. These may have not only preamp outputs but also power-amp inputs so that you can redirect signals from the surround channels to the front amplifiers if you upgrade to a more powerful external amp for the front channels. But if you buy a receiver with adequate and well-balanced power, you won't need to resort to such makeshifts.

That brings us back to the question of how much power you need. My stock answer is, as much as you can afford. I'm not trying to dodge the issue, but there's no single power rating that's best for anyone or everyone. While 50 watts per channel should provide a decent listening level for most music, and you can even get by with less if you use efficient speakers, even 250 watts per channel can't guarantee that you'll never drive the amplifier beyond its capabilities with loud rock, movie soundtracks, or blockbuster classical scores.

A lot of this has to do with the nature of human hearing. It takes a tenfold increase in power just to double perceived loudness. So if a 50-watt-per-channel receiver doesn't cut the mustard and you want to play your system "twice as loud," you're talking 500 watts per channel! That's why less than 50 watts can sound pretty good and 250 watts may not be enough. Besides, it's usually cheaper to buy more efficient speakers than to buy extra amplifier power.

By "well-balanced power" I mean equal power to all five channels if you play Dolby Digital programs. In Dolby Pro Logic, you can get by with less power to the surround speakers than in front because unlike Dolby Digital, the surround channels are not full-bandwidth channels. but the front trio should have equal power. Happy hunting! *— Edward J. Foster*

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PowerPad : Large LCD Display with Icon-Driven Control Screens • Operates Most Popular Audio and Video Brands • FutureSet Upgrade Capability (via Telephone) • Easy-Access Volume and Mute Controls • Macro Play: 4 Preset/3 Programmable • Remote Command Feedback

Receivers

AIWA

AV-DV500 350-W A/V Receiver
5 channels. Dolby Pro Logic, Hall, Dance Club, Live, and Arena modes. 70 W x 5 (front, center, surround). 3 rear-panel A/V inputs; 1 front-panel A/V input; 6-channel input; 2 rear A/V outputs; rear subwoofer output. Dolby Digital ready; digital signal processor. Graphic EQ; bass boost. Aluminum front panel. 14⅛ x 6 x 13 in; 21 lb $600

AV-DV70 480-W Dolby Digital Receiver
5 channels. Dolby Digital and Dolby Pro Logic modes. 120 W x 3 (front, center) + 60 x 2 (surround). Front-panel A/V input; coaxial and optical digital inputs; subwoofer output. Digital signal processor; BBE audio enhancement (4-position). Graphic EQ; on-screen display; bass boost; multibrand remote control. Black. 17 x 6 x 13⅜ in; 25 lb $600

AV-D50 480-W A/V Receiver
5 channels. Dolby Pro Logic. 120 W x 3 (front, center) + 60 x 2 (surround). 6-channel input; front-panel A/V input; 2 rear-panel A/V inputs; 2 rear-panel A/V outputs; monitor output; subwoofer output. Dolby Digital ready; digital signal processor; BBE audio enhancement (4-position). Graphic EQ; on-screen display; bass boost; multibrand remote control. Black. 17 x 6 x 13⅜ in; 25 lb $400

AV-D30 295-W A/V Receiver
5 channels. Dolby Pro Logic. 75 W x 3 cont (front, center) + 35 x 2 (surround) into 8 ohms. 6-channel input; front-panel A/V input; 2 rear-panel A/V inputs; 2 rear-panel A/V outputs; monitor output; subwoofer output. Dolby Digital ready; digital signal processor. Graphic EQ; bass boost; remote control. Black. 17 x 6 x 13⅜ in; 22 lb $250

B&K COMPONENTS

AVR-101 525-W Dolby Digital Receiver
5 channels. Dolby Digital and Dolby Pro Logic. 105 W x 5 into 8 ohms from 5 Hz-45 kHz with 0.02% THD. 7 line-level inputs; 5 optical and 6 coaxial digital inputs; 5 line-level outputs; system remote control outputs. Motorola 24-bit DSP chip. 20 memory presets with user-programmable names; auto source selection; on-screen display; learning/universal remote control. Amp: S/N 90 dB. FM: 50-dB quieting sens 35 dBf; cap ratio 2.0 dB; alt-ch sel 65 dB; THD 0.25%. 5-yr warranty. 17 x 6¼ x 17 in; 55 lb $2,500
AVR-202. As above with DTS $2,800

CARVER

HTR-885.1 300-W A/V Receiver
5 channels. Dolby Pro Logic and 5 ambience modes. 80 W x 3 (front) + 30 x 2 (surround) all from 20 Hz-20 kHz with 0.08% THD. 3 audio inputs; 2 A/V inputs; DB-25 input; composite-video output; subwoofer output; switched and unswitched AC outlets. Proprietary circuitry to increase power on demand for selected amp channels; high-current amp design; Surround Field Expansion (SFX) circuitry; digital-synthesis tuner; motor-driven volume control. 16 AM/FM presets; bass, treble, and balance controls; infrared remote control. Amp: S/N 92 dB. FM: 50-dB quieting sens 40.7 dBf stereo; S/N 80 dB mono, 75 dB stereo; THD 0.4% stereo at 1 kHz. 17 x 6⅝ x 11½ in; 20 lb $600

DENON

AVR-5600 700-W THX Dolby Digital Receiver
5 channels. Dolby Pro Logic, Dolby Digital, and THX Home Cinema modes. 140 W x 5 (front, center, surround) into 8 ohms from 20 Hz-20 kHz with 0.05% THD. 4 digital inputs including AC-3 RF input; digital output; 10 inputs and 12 audio outputs; 5 inputs/4 outputs for composite-video; 5 inputs/3 outputs for S-video; line-level output for front, center, surround, and subwoofer. THX-certification for 5.1 Dolby Digital and 4-channel Pro Logic Surround; discrete amplifier-output stage; text-capable RDS tuner. Personal Memory Plus; icon-based on-screen display; learning remote control $2,800

AVR-3600 550-W Dolby Digital Receiver
5 channels. Dolby Digital and Dolby Pro Logic modes. 110 W x 5 into 8 ohms from 20 Hz-20 kHz with 0.05% THD. 2 digital inputs; AC-3 RF input; 10 inputs and 5 outputs for audio; 5 inputs and 4 outputs for composite-video; 5 inputs and 3 outputs for S-video; line-level outputs for front, center, surround, and subwoofer. Discrete amplifier-output stage; Dynamic Discrete Surround Circuit (DDSC). Personal Memory Plus; icon-based on screen display; multisource output; learning remote control $1,800

AVR-3200 425-W Dolby Digital Receiver
5 channels. Dolby Digital, Dolby Pro Logic (4 modes), Jazz Club, Rock Arena, Mono Movie, Matrix, Videogame, and 5-Channel Stereo modes. 85 W x 5 (front, center, surround) into 8 ohms from 20 Hz-20 kHz with 0.05% THD. 6-channel input; Coaxial and optical digital input; AC-3 RF input; 7 analog inputs; tuner input; 4 composite-video inputs; 4 S-video inputs; 4 line-level outputs; 3 analog outputs; 3 composite-video outputs; 3 S-video outputs; 2 switched AC outlets. Digital Dynamic Discrete Surround Circuit (DDSC); Cinema EQ; Personal Memory Plus. Icon-based on-screen display; learning/universal remote. Amp: S/N 96 dB. FM: 50-dB quieting sens 38.5 dBf; AM Rej 60 dB; cap ratio 1.5 dB; S/N 80 dB mono, 75 dB stereo; THD 0.3%. 17⅛ x 6½ x 16½ in; 34 lb $999

AVR-2700 400-W Dolby Digital Receiver
5 channels. Dolby Digital, Dolby Pro Logic, and 9 ambience modes. 80 W x 5 (front, center, surround) rms into 8 ohms from 20 Hz-20kHz with 0.05% THD or 120 x 5 into 6 ohms at 1 kHz with 0.5% THD. 8 audio inputs; 6-channel analog audio input; composite- and S-video inputs; 1 optical and 2 coaxial digital inputs; 5 sets of banana-plug-compatible binding posts; 4 line-level outputs (L, C, R, sub); 3 biwirable front speaker outputs; 2 switched AC outlets. Discrete amplifier-output stage; aluminum-alloy heat sinks; 24-bit D/A converters for all 6 channels; Cinema EQ. On-screen display; learning remote with glow-key buttons; Personal Memory Plus; level memory for each mode. Black. 17⅛ x 6¼ x 16½ in; 26 lb $799

DRA-775RD 90-W/ch Receiver
2 channels. 90 W x 2 into 8 ohms from 20 Hz-20 kHz with 0.05% THD. Phono input; line-level output/main-in jacks. Short-signal-path chassis design; text-capable RDS tuner. Capability for 2 multiroom zones; system/multiroom remote control. FM: 50-dB quieting sens 38.5 dBf stereo; cap ratio 1.5 dB; adj-ch sel 55 dB; S/N 78 dB stereo; THD 0.015% stereo. 17⅛ x 6¼ x 16½ in; 25 lb $749

AVR-2400 375-W Dolby Digital Receiver
5 channels. Dolby Pro-Logic (Normal, Phantom, Wide) Concert, Hall, Live, Rock Arena, Jazz Club, Mono Movie, and 5-Channel Stereo modes. 75 W x 5 (front, center, surround) into 8 ohms from 20 Hz-20 kHz with 0.05% THD. 6-channel input; 7 audio inputs; tuner input; 4 composite-video inputs; 4 S-video inputs; 3 analog outputs; 3 composite-video outputs; 3 S-video outputs; 2 switched AC outlets. DDSC; discrete amplifier-output stage; Cinema EQ; Personal Memory Plus. Icon-based on-screen display; learning remote control. Amp: S/N 96 dB. FM: 50-dB quieting sens 38.5 dB; cap ratio 1.5 dB; S/N 80 dB mono, 75 dB stereo; THD 0.3%. Black. 17⅛ x 6½ x 16½ in; 29 lb $699
AVR-1400. As above, 65 W x 5. Without S-video, icon-based display, or Cinema EQ. AMP S/N 92 dB; 23 lb. 17⅛ x 6½ x 16½ in $499

AVR-1700 350-W Dolby Digital Receiver
5 channels. Dolby Digital, Dolby Pro Logic, and 7 ambience modes. 70 W x 5 (front, center, surround) into 8 ohms from 20 Hz-20 kHz with 0.05% THD. 8 audio inputs; 6-channel analog audio input; 4 video inputs; 1 optical and 2 coaxial digital inputs; banana-plug compatible binding posts; 3 biwirable front-panel speaker connections; 4 line-level outputs (L,C,R, sub); headphone jack; 2 switched AC outlets. Discrete amplifier-output stage; aluminum-alloy heat sinks; 24-bit D/A converters for all 6 channels. Learning remote with glow-key buttons; Personal Memory Plus. Black. 17⅛ x 6¼ x 16½ in; 22 lb $599

AVR-1100 275-W A/V Receiver
5 channels. Dolby Pro Logic. 55 W x 5 (front, center, surround) into 8 ohms from 20 Hz-20 kHz with 0.08% THD. 6 audio inputs; 6-channel input; 2 composite- and S-video inputs; 2 sets of biwirable banana-plug compatible binding posts; subwoofer output; headphone jack; 2 switched AC outlets. Dolby Digital ready; discrete amplifier-output stage. Learning remote control; Personal Memory Plus. Black. 17⅛ x 5¼ x 12½ in; 18 lb $399

AVR-600 180-W A/V Receiver
5 channels. Dolby Pro Logic. 50 W x 3 (front, center, rear) into 8 ohms from 20 Hz-20 kHz with 0.08% THD + 15 x 2 (surround) into 8 ohms at 1 kHz with 0.3% THD. Subwoofer output; binding-post speaker terminals for front speakers. Dynamic Discrete Surround Circuit (DDSC). Personal Memory Plus; 40 AM/FM presets; auto preset memory; color-coded remote control. 17⅛ x 5½ x 12½ in; 17 lb $299

DRA-375RD 60-W/ch Receiver
2 channels. 60 W x 2 into 8 ohms from 20 Hz-20 kHz with 0.08% THD. 2 video inputs and outputs; 3-way speaker binding posts; switched AC outlets. Discrete amplifier-output stage; motor-driven volume control; text-capable RDS tuner. A/B speaker switch; adjustable loudness; frequency-synthesis tuning; 40 AM/FM presets; auto preset memory; character input; last-channel-tuned memory; remote control $299

DRA-275 40-W/ch Receiver
2 channels. 40 W x 2 into 8 ohms from 20 Hz-20 kHz with 0.08% THD. 2 video inputs and outputs; 3-way speaker binding posts; switchable AC outlets. Discrete amplifier-output stage; motor-driven volume control. A/B speaker switch; adjustable loudness; frequency-synthesis tuning; 40 AM/FM presets; last station memory; remote control $249

DUAL

CR5950RC 120-W/ch Receiver
2 channels. 120 W x 2 into 8 ohms with 0.02% THD. 2 video inputs and outputs; gold-plated inputs for phono and CD. Class A design; motor-driven volume control; digital quartz-synthesis tuner. 16 AM/FM presets; remote control. Amp: FR 10 Hz-70 kHz $620

CR9065RC 80-W/ch Receiver
2 channels. 80 W x 2 into 8 ohms with 0.02% THD. 2 video inputs and outputs. Digital quartz-synthesis tuner; motor-driven volume control. Matrix surround; 4-character station naming; 40 AM/FM presets; remote control. Amp: FR 10 Hz-60 kHz $480

HARMAN KARDON

AVR-85 425-W Dolby Digital Receiver
5 channels. Dolby Pro Logic, Dolby Digital, Dolby 3 Stereo, Matrix, Movie, Hall, and Stereo modes. 85 W x 5 into 8 ohms from 20 Hz-20 kHz with 0.07% THD. 4 audio inputs; 5 A/V inputs; front-panel A/V input; RF, coaxial, and optical digital inputs; 3 S-video input/outputs; 5 line-level outputs; adjustable subwoofer output; switched AC outlet; multiroom outputs. High-current amp design with low-impedance capability. Learning remote control; multiroom-multisource control; on-screen menu displays; composite- and S-video switching. Amp: S/N 95 dBA; ch sep 58 dB at 1 kHz. FM: 50-dB

quieting sens 13.5 dBf; AM Rej 55 dB; cap ratio 2.0 dB; adj-ch sel 5 dB; alt-ch sel 65 dB; S/N 76 dB mono, 68 dB stereo; THD 0.5%. Matte black. 17⅜ x 6¼ x 18 in; 33 lb $1,699

AVR-65 325-W Dolby Digital/DTS Receiver
5 channels. Dolby Digital, DTS, Dolby Pro Logic, Theater, Dolby 3 Stereo, and 2 Hall modes. 65 W x 5 (front, center, surround) or 75 x 2, both into 8 ohms from 20 Hz-20 kHz with 0.08% THD. 10 audio inputs; 4 video inputs; coaxial and optical digital inputs; front-panel A/V input; 5 line-level outputs; subwoofer output; 2 switched AC outlets; speaker binding posts. High-current amp design; discrete amplifier-output stage. On-screen display; multiroom capability; preprogrammed remote with backlit display and macros. Amp: S/N 90 dB; ch sep 60 dB at 1 kHz. FM: 50-dB quieting sens 33 dBf stereo; AM Rej 50 dB; cap ratio 2.0 dB; alt-ch sel 65 dB; S/N 67 dB mono, 65 dB stereo; THD 0.5% stereo. Matte black. 17⅜ x 6 x 15¾ in $1,199

AVR-45 275-W Dolby Digital Receiver
5 channels. Dolby Digital, Dolby Pro Logic, Dolby 3 Stereo, Theater, and 2 Hall modes. 55 W x 5 or 60 x 2, both into 8 ohms from 20 Hz-20kHz with 0.08% THD. 10 audio inputs; 2 video inputs; coaxial and optical input; front-panel A/V input; speaker binding posts; 5 line-level outputs; subwoofer output; 2 switched AC outlets. High-current amp design; discrete amplifier-output stage. Preprogrammed remote with backlit display and macros. Amp: S/N 90 dB; ch sep 60 dB at 1 kHz. FM: 50-dB quieting sens 33 dBf stereo; AM Rej 50 dB; cap ratio 2.0 dB; alt-ch sel 65 dB; S/N 67 dB mono, 65 dB stereo; THD 0.5% stereo. Matte black. 17⅜ x 6 x 15¾ in $879

AVR-35 200-W Dolby Digital Receiver
5 channels. Dolby Digital, Dolby Pro Logic, Dolby 3 Stereo, Theater, and 2 Hall modes. 40 W x 5 or 45 x 2, both into 8 ohms from 20 Hz-20 kHz with 0.08% THD. 4 audio inputs; 3 video inputs; front-panel A/V input; coaxial and optical digital inputs; subwoofer output; speaker binding posts. High-current amplifier design with discrete output stage. Preprogrammed remote control. Amp: S/N 90 dB; ch sep 55 dB at 1 kHz. FM: 50-dB quieting sens 35 dBf stereo; AM Rej 50 dB; cap ratio 2.0 dB; alt-ch sel 60 dB; S/N 65 dB mono, 62 dB stereo; THD 0.6% stereo. Matte black. 17⅜ x 6 x 15¾ in $699

AVR-40 215-W A/V Receiver
5 channels. Dolby Pro Logic, Dolby 3 Stereo, Hall, and Wrap modes. 55 W x 2 (front) from 20 Hz-20 kHz with 0.2% THD + 55 x 1 (center) with 0.3% THD at 1 kHz, both into 8 ohms + 25 x 2 (surround) into 4 ohms with 0.7% THD at 1 kHz or 65 x 2 into 8 ohms from 20 Hz-20 kHz with 0.09% THD. 5 audio inputs; 3 A/V inputs; front-panel A/V input; 2 main inputs; 5 line-level outputs; subwoofer output; 2 switched AC outlets. High-current amp design. 30 AM/FM presets; direct video dubbing; memory for surround modes; system remote control. Amp: S/N 92 dBA; ch sep 45 dB at 1 kHz. FM: 50-dB quieting sens 40.3 dBf; AM Rej 55 dB; cap ratio 2.0 dB; adj-ch sel 5 dB; alt-ch sel 65 dB; S/N 70 dB mono, 65 dB stereo; THD 0.5%. Matte black. 17⅜ x 6⅜ x 14⅞ in; 27 lb $479

AVR-5 200-W A/V Receiver
5 channels. Dolby Pro Logic, Dolby 3 Stereo, Theater, and 2 Hall modes. 40 W x 5 or 50 x 2, both from 20 Hz-20 kHz with 0.05% THD. 10 audio inputs including phono; 3 video inputs. High-current amp design; discrete amplifier-output stage. A/V preprogrammed remote control. Amp: S/N 95 dB; ch sep 52 dB at 1 kHz. FM: 50-dB quieting sens 45.3 dBf stereo; AM Rej 50 dB; cap ratio 2.0 dB; alt-ch sel 47 dB; S/N 65 dB mono, 60 dB stereo; THD 0.8%. Matte black. 17⅜ x 6⅛ x 15 in ...$429

HK3270 70-W/ch Receiver
2 channels. 70 W x 2 rms into 8 ohms from 20 Hz-20 kHz with 0.09% THD. 5 inputs including phono; 2 audio outputs; gold-plated headphone jack; 2 switched AC outlets. High-current amp design; discrete amplifier-output stage. A/B speaker selector; system remote control. Amp: S/N 95 dB; ch sep 50 dB at 1 kHz. FM: 50-dB quieting sens 47.3 dBf stereo; AM Rej 50 dB; alt-ch sel 45 dB; THD 0.5%. 17⅜ x 6⅛ x 15 in $329

JVC

RX-1024VBK 500-W Dolby Digital Receiver
5 channels. Dolby Digital, Dolby Pro Logic, Theater, Dolby 3 Stereo, Hall, Dance Club, Live, Club, and Pavilion modes. 100 W x 5 at 1 kHz with 0.8% THD or 130 x 2 into 8 ohms from 20 Hz-20 kHz with 0.02% THD. 8 audio inputs; 5 video inputs; 4 S-Video inputs; 2 optical and 1 coaxial digital input; front-panel A/V input; 4 S-Video outputs; subwoofer output; outputs for 2 front speaker pairs; headphone jack; line-level outputs for all channels; banana jacks for all outputs. Digital-domain Pro Logic processing; discrete amplifier-output stage; computer-controlled digital-synthesis tuner. 5 EQ presets and 1 user-adjustable setting; center-channel tone control; 40 AM/FM presets; loudness switch; balance control; multicolor on-screen display; sleep timer; fluorescent display; multibrand A/V remote control with cable box and CD changer controls; A/V CompuLink control system; one-touch operation remembers input settings; TV auto power-on; backlit remote control. Amp: S/N 87 dB. FM: 50-dB quieting sens 38.3 dBf stereo; AM Rej 50 dB; cap ratio 1.5 dB; adj-ch sel 60 dB; S/N 80 dB mono, 73 dB stereo; THD 0.2% stereo. Black. 17¼ x 6¼ x 16¼ in; 26 lb $900

RX-992VBK 480-W A/V Receiver
5 channels. Dolby Pro Logic, Dolby 3 Stereo, Stadium, Dance Club, Live Club, Pavilion, Headphone, and 2 Theater DSP modes. 120 W x 3 + 60 x 2 at 1 kHz with 0.8% THD or 120 x 2 from 20 Hz-20 kHz with 0.02% THD, all into 8 ohms. 6-channel input; 8 audio inputs; 5 video inputs; 2 S-video inputs; subwoofer output; banana-plug-compatible outputs for 2 front speaker pairs; headphone jack; gold plating on all connectors. Dolby Digital ready; digital-domain Pro Logic processing; Advanced Super-A amp circuit; constant-current circuit; discrete amp-output stage. 5 EQ presets and 1 user-adjustable setting; multicolor on-screen display with superimpose feature; one touch operation; A/V CompuLink compatible; 40 AM/FM presets; loudness switch; sleep timer; programmable A/V remote with DVD and CD megachanger control. FM: 50-dB quieting sens 38.3 dBf; cap ratio 1.5 dB; S/N 80 dB mono, 73 dB stereo; THD 0.15%. Black. 17¼ x 6¼ x 16¼ in; 30 lb $670

RX-884VBK 500-W Dolby Digital Receiver
5 channels. Dolby Digital, Dolby Pro Logic, Dolby 3 Stereo, Hall, Dance Club, Live, Club, and Pavilion DSP modes, Virtual 5.1, Theater, and Headphone modes. 100 W x 5 at 1 kHz with 0.8% THD or 120 x 2 into 8 ohms from 20 Hz-20 kHz with 0.02% THD. 8 audio inputs; 5 video inputs; 4 S-Video inputs; 2 optical and 1 coaxial digital input; front-panel A/V input; 4 S-Video outputs; subwoofer output; outputs for 2 front speaker pairs; banana plugs for all outputs; headphone jack. Digital-domain Pro Logic processing; discrete amplifier-output stage; computer-controlled digital-synthesis tuner. 5 EQ presets and 1 user-adjustable setting; center-channel tone control; 40 AM/FM presets; loudness switch; balance control; multicolor on-screen display; sleep timer; fluorescent display; A/V CompuLink control system; one-touch operation; multibrand A/V remote with DVD and megachanger controls $550

RX-774VBK 500-W A/V Receiver
5 channels. Dolby Pro Logic, Dolby 3 Stereo, Hall, Virtual Pro Logic, Theater, and Headphone modes. 100 W x 5 at 1 kHz with 0.8% THD or 110 x 2 from 20 Hz-20 kHz, all into 8 ohms. 6 audio and 3 video inputs; 1 S-Video input; subwoofer output; 1 S-Video output; outputs for 2 front speaker pairs; headphone jack. Discrete amp-output stage. 5 EQ presets and 1 user-adjustable setting; adjustable digital delay; 40 AM/FM presets; center-channel tone control; loudness switch; LED volume indicator; enhanced A/V CompuLink text control system; multicolor on-screen display; multibrand A/V remote control with cable box and megachanger controls $450

RX-5TH 200-W A/V Receiver
4 channels. Dolby Pro Logic, Dolby 3 Stereo, three 3D-Phonic, and 4 ambience modes. 50 W x 4 at 1 kHz or 100 x 2 from 40 Hz-20 kHz, all into 8 ohms with 0.8% THD. 5 audio inputs; 2 video inputs; 2 audio outputs; 2 video outputs. 14 EQ presets; one-touch operation; A/V CompuLink control system; on-screen display. Amp: S/N 87 dB. FM: 50-dB quieting sens 38.3 dBf; AM Rej 50 dB; cap ratio 1.5 dB; adj-ch sel 60 dB; S/N 80 dB mono, 73 dB stereo; THD 0.2%. Black. 15¾ x 5 x 15¾ in; 17 lb $360

RX-664VBK 500-W A/V Receiver
5 channels. Dolby Pro Logic, Dolby 3 Stereo, three 3D-Phonic modes for virtual Pro Logic, Theater, Headphone, and Hall DSP mode. 100 W x 5 at 1 kHz with 0.8% THD or 100 x 2 from 40 Hz-20 kHz, all into 8 ohms. 6 audio inputs; 2 video inputs; subwoofer output; headphone jack. Discrete amp-output stage; computer-controlled digital-synthesis tuner. Adjustable digital delay; 14-preset EQ; 40 AM/FM presets; loudness switch; balance controls; fluorescent display; enhanced A/V CompuLink control system; one-touch operation; multibrand A/V remote control $330
RX-552VBK. As above, 100 W x 4 (front, center) or 100 x 2. 5 audio inputs. Includes unified A/V remote control $230

KENWOOD

VR-2090 500-W Dolby Digital/DTS Receiver
5 channels. Dolby Digital, DTS, Dolby Pro Logic, and 5 ambience modes. 100 W x 5 all into 6 ohms with 0.09% THD. 2 optical and 2 coaxial digital inputs; 4 S-video inputs; 4 composite video inputs; 8 analog audio inputs; optical digital output for MD dubbing; composite-video output; S-video output; 4 analog audio outputs; K-Stat circuitry; full digital bass management; 3 Motorola 24-bit DSP chips; 20-bit D/A and A/D converters; multiroom capability. 4 factory presets and 3 user-programmable macros; CD title-based direct-disc access; remote control with LCD screen and joystick operation; RDS station tuning; CD Text capability. FM: THD 0.03% $1,000
VR-2080. As above but without S-video inputs/outputs, room A/B monitor outputs, optical digital output, 12-V relay outputs, RDS, or macro programming $800

VR-209 500-W Dolby Digital Receiver
5 channels. Dolby Digital and Dolby Pro Logic modes. 100 W x 5. Coaxial and optical digital inputs; 3 composite-video inputs; 7 analog inputs; composite-video output; 3 analog audio outputs; banana-jack compatible speaker terminals. Dolby Digital and PCM auto detection/switching; 20-bit D/A and A/D converters. Input deletion and renaming; 3 user-programmable macros; programmable universal remote control. Amp: FR 75 dB phono, 90 dB line. FM: S/N 75 dB mono, 68 dB stereo; THD 0.7%. 17⅜ x 5¾ x 15¾ in; 19 lb $400
VR-207. As above, Dolby Digital/DTS-ready; 6 analog audio inputs and 2 analog audio outputs. No coaxial or optical digital inputs or banana-plug compatible speaker connectors. 17⅜ x 5¾ x 15⅞ in; 19 lb $300

VR-205 250-W A/V Receiver
5 channels. Dolby Pro Logic and 3 ambience modes. 50 W x 3 (front, center) + 50 x 2 (surround). 6 analog audio inputs; 3 composite-video inputs; 6-channel input; composite-video output; video-monitor output; 2 analog audio outputs; line-level output for subwoofer. Dolby Digital ready; Propri-

etary amp design. System remote control. FM: S/N 75 dB mono, 68 dB stereo; THD 0.7%. 17⅜ x 5¼ x 15⅜ in; 18 lb $200

Model 104AR 100-W/ch Receiver
2 channels. 100 W x 2 into 8 ohms from 20 Hz-20 kHz with 0.09% THD. 6 audio inputs. SRS 3-D sound. 40 AM/FM station presets; direct-access tuning; multifunction remote control. FM: 50-dB quieting sens 41.2 dBf; S/N 75 dB mono, 68 dB stereo; THD 0.6%. Slate $150

Model 103AR 50-W/ch Receiver
2 channels. 50 W x 2 into 8 ohms from 30 Hz-20 kHz with 0.09% THD. 4 audio inputs; Kenwood system remote control jacks. Multifunction remote control $130

KRELL

KAV-300r 150-W/ch Receiver
2 channels. 150 W x 2 into 8 ohms from 20 Hz-20 kHz with 0.25% THD. 1 balanced XLR and 3 unbalanced RCA inputs; RCA line-level output. Amp: S/N 95 dB. 5-yr parts-and-labor warranty. 19 x 3¾ x 15½ in; 25 lb $3,250

NAD Model 712 stereo receiver

LUXMAN

RV-371 315-W A/V Receiver
5 channels. Dolby Pro Logic, Stadium, Simulated-Stereo, and 2 Hall modes. 75 W x 2 (front) + 55 x 3 (center, surround) into 8 ohms from 20 Hz-20 kHz with 0.01% THD. 12 audio inputs; switchable phono/line-level input; S-video terminals; composite-video on-screen-display output; front-panel A/V input; system bus connection; 2 front speaker outputs. 5 discrete amplifiers. Multiroom capability; variable rear-channel time delay; A/V record selector; FM tuning in 25-kHz steps; 20 AM/FM presets; defeatable tone controls; loudness switch; A/B speaker selector; sleep timer; on-screen displays; remote control $1,749

RV-357 300 A/V Receiver
5 channels. Dolby Pro Logic, Studio, Hall modes. 80 W x 3 (front, center) 20 Hz-20 kHz with 0.08% THD + 30 x 2 (surround) at 1 kHz with 0.5% THD, all rms into 8 ohms. Screw-type speaker terminals. Adjustable delay time setting; auto tuning; adjustable surround-channel delay; multifunction remote control. Amp: FR 20 Hz-20 kHz ±0.1 dB phono, 10 Hz-50 kHz ±3 dB line; S/N 74 dB phono, 92 dB line. FM: 50-dB quieting sens 25 dBf stereo; S/N 80 dB mono, 75 dB stereo; THD 0.15% stereo. Black. 3-yr warranty. 19 x 6½ x 13½ in; 20 lb $798

MARANTZ

SR-880 450-W Dolby Digital Receiver
5 channels. Dolby Digital and Dolby Pro Logic modes. 110 W x 3 (front, center) + 60 x 2 (surround) into 8 ohms. 2 optical and coaxial digital inputs; AC-3 RF input with built-in Dolby Digital RF demodulator; S-video inputs; monitor output. On-screen display; 30 AM/FM presets with auto preset memory/scan and station naming; multiroom capability with fixed or variable-level preamp outputs; RC-2000 intelligent-learning remote with LCD readout. 3-yr parts-and-labor warranty. 17⅜ x 6¼ x 12 in; 28 lb $1,500

SR-780 400-W Dolby Digital Receiver
5 channels. Dolby Digital and Dolby Pro Logic modes. 80 W x 5 into 8 ohms. 2 optical and coaxial digital inputs; AC-3 RF input with built-in Dolby Digital RF demodulator. Lucasfilm ReEQ circuitry. On-screen display; 30 AM/FM presets with auto preset memory/scan and station naming; multiroom capability with fixed or variable-level preamp outputs for second zone; RC 2000 MkII learning remote control. 3-yr parts-and-labor warranty. 17⅜ x 6¼ x 12 in; 28 lb $1,200
SR-685. As above without S-video display, multiroom capability, or RC2000 remote $1,000

SR-580 300-W Dolby Digital Receiver
5 channels. Dolby Digital, Dolby Pro Logic, Hall, and Matrix modes. 60 W x 5 into 8 ohms from 20 Hz-20 kHz with 0.08% THD or 90 x 5 into 4 ohms from 20 Hz-20 kHz with 0.3% THD. 3 audio inputs; 5 video inputs; AC-3 RF, coaxial, and optical digital inputs; 1 pair front-panel inputs; 2 record loops; line-level outputs for each channel. 5 discrete amplifier-output stages; Motorola 56000 DSP processor. Test-tone generator; programmable remote control. FM: 50-dB quieting sens 10.8 dBf; AM Rej 50 dB; adj-ch sel 55 dB; alt-ch sel 55 dB; S/N 80 dB mono, 73 dB stereo; THD 0.5%. Black. 3-yr warranty. 17¼ x 5½ x 15 in; 31 lb $699
SR-585. As above without AC-3 RF input ...$699
SR-480. As above without Dolby Digital; with pre-out/main-in loop; system remote control instead of learning remote $499

CR-2020 Slim Series 30-W/ch Receiver/CD Player
2 channels. 30 W x 2 into 8 ohms with 0.09% THD. Headphone jack. 30 AM/FM presets with auto preset memory/scan and station naming; station naming; CD player section features Philips CDM-12.1 holographic-laser transport with digital servo control; Bitstream DAC; 12/24-hr clock/timer function; program, random, and repeat play modes; system remote control. 3-yr parts-and-labor warranty. 17⅜ x 4 x 12 in; 15 lb $600

SR-63 70-W/ch Receiver
2 channels. 70 W x 2 rms into 8 ohms from 20 Hz-20 kHz with 0.5% THD or 170 x 2 into 2 ohms. Phono input; RC-5 system remote-control jacks; AC outlets. Motor-driven volume control. Video switching; 30 AM/FM presets with battery-free memory backup; bass, treble, and bass-EQ controls; system remote control. Amp: S/N 80 dB phono, 90 dB line; ch sep 45 dB. FM: cap ratio 1 dB; alt-ch sel 65 dB; S/N 75 dB stereo; THD 0.5% stereo. 3-yr parts-and-labor warranty. 16½ x 5½ x 14¾ in $400

SR-66 200-W A/V Receiver
5 channels. Dolby Pro Logic, Dolby 3 Stereo, and Hall modes. 50 W x 3 (front, center) + 25 x 2 (surround) or 75 x 2 into 8 ohms from 20 Hz-20 kHz with 0.09% THD. 5 audio and 2 video inputs. Digital delay. Video switching; 30 AM/FM presets; system remote control. Amp: S/N 80 dB phono, 90 dB line; ch sep 45 dB. FM: cap ratio 1 dB; alt-ch sel 65 dB; S/N 75 dB stereo; THD 0.5% stereo. 3-yr parts-and-labor warranty. 16½ x 5½ x 14¾ in $350

SR-48 50-W/ch Receiver
2 channels. 50 W x 2 into 8 ohms from 20 Hz-20 kHz with 0.09% THD or 70 x 2 into 4 ohms from 20 Hz-20 kHz with 0.3% THD. 4 audio inputs; tape loop; parallel remote-speaker connection; banana-jack speaker terminals. Discrete amplifier-output stage. Auto-preset memory; system remote control. FM: alt-ch sel 50 dB; S/N 70 dB mono, 65 dB stereo; THD 0.5%. Black. 3-yr warranty. 17¼ x 5½ x 13⅜ in; 15 lb $300

MITSUBISHI

M-VR1000 420-W Dolby Digital Receiver
5 channels. Dolby Digital, Dolby Pro Logic (Normal, Phantom, Wide), Dolby 3 Stereo, and Hall modes. 100 W x 3 (left, center, right) + 60 x 2 (surround) at 1 kHz with 0.1% THD or 125 x 2 from 20 Hz-20 kHz with 0.09% THD, all into 6 ohms. 6 audio inputs; 5 A/V inputs; 3 audio outputs; 3 S-video outputs; 5 banana-plug speaker terminals. Discrete amplifier-output stage; motor-driven volume control. On-screen menu display; auto standby mode; multibrand remote with center- and surround-level controls; 30 AM/FM presets with scan. Amp: S/N 100 dB. FM: 50-dB quieting sens 37.2 dBf; cap ratio 1.5 dB; alt-ch sel 55 dB; S/N 70 dB stereo; THD 0.2%. Black-diamond gray. 17⅛ x 6⅞ x 17¼ in; 48 lb $1,999
M-VR800. As above, 70 W x 5 into 6 ohms with 0.1% THD or 125 x 2 into 6 ohms from 20 Hz-20 kHz with 0.9% THD. 17⅛ x 6⅞ x 15¾ in; 37 lb ...$1,199

M-VR600 255-W A/V Receiver
5 channels. Dolby Pro Logic, Wide, Phantom, Dolby 3 stereo, and Hall modes. 65 W x 3 (front, right, center) + 30 x 2 (surround) or 70 x 2, all into 6 ohms at 1 kHz with 0.5% THD. 4 audio inputs; 4 S-video/composite-video inputs; front-panel A/V input; 2 tape loops; 2 S-video outputs; mono subwoofer output; headphone jack; 1 switched, 1 unswitched AC outlet. Discrete amp-output stage; motor-driven volume control. 30 AM/FM presets; mute switch; auto-standby mode; preprogrammed universal remote control. Amp: THD 0.09%. 17⅛ x 5⅞ x 13⅜ in; 20 lb $599

M-VR400 190-W A/V Receiver
5 channels. Dolby Pro Logic, Wide, Phantom, Dolby 3 Stereo, and Hall modes. 50 W x 3 (front, center) into 6 ohms + 20 x 2 (surround) into 4 ohms or 55 x 2 into 6 ohms, all at 1 kHz with 0.5% THD. 4 audio inputs; 2 tape loops; 1 VCR loop; 2 composite-video inputs. Motor-driven remote control. 30 AM/FM presets; remote center- and rear-level controls; remote control with mute. Amp: THD 0.09% at rated power. 17⅛ x 5⅞ x 13⅜ in; 13 lb $449

NAD

Model 713-AV 195-W A/V Receiver
4 channels. Dolby Pro Logic and Hall surround modes. 55 W x 3 (front, center) + 30 x 1 (surround) or 60 x 2 all into 8 ohms from 20 Hz-20 kHz with 0.08% THD. CD and phono inputs; 2 tape inputs; 2 video inputs; 1 video output. Discrete amplifier-output stage; controlled Dynamic Range; low-impedance drive capability. Late-night listening mode; video switching; full system remote; NAD link; 30 AM/FM presets. Amp: S/N 100 dB. 17⅛ x 5¾ x 13 in $599

Model 711-AV 140-W A/V Receiver
4 channels. Dolby Pro Logic and Hall surround modes. 40 W x 3 (front, center) + 20 x 1 (surround) or 40 x 2 all into 8 ohms from 20 Hz-20 kHz with 0.08% THD. 4 audio inputs including 2 tape input/outputs; 2 video inputs. Discrete amplifier-output stage. Late-night listening mode; video switching; NAD link; 30 AM/FM presets; full system remote control. Amp: S/N 100 dB. 17⅛ x 5¾ x 11½ in; 20 lb $499

Model 712 25-W/ch Receiver
2 channels. 25 W x 2 cont into 8 ohms from 20 Hz-20 kHz with 0.03% THD. 6 audio inputs including 2 tape input/outputs with dubbing capability; line-level inputs/outputs. Proprietary Soft Clipping circuitry. NAD link; 24 AM/FM presets; full system remote. Amp: S/N 116 dB. 17⅛ x 3⅝ x 10¾ in; 13 lb $399

Model 710 20-W/ch Receiver
2 channels. 20 W x 2 cont into 8 ohms or 80 x 2 into 2 ohms. MOSFET-bipolar output stage. 24 AM/FM presets; high-speed search tuning. Amp: S/N 74 dB $299

Theater Series
T770 350-W Dolby Digital Receiver
5 channels. Dolby Digital, Dolby Pro Logic modes, and Enhanced Ambiance Recovery System (EARS) modes. 70 W x 5 or 80 x 2, both into 8 ohms from 20 Hz-20 kHz with 0.08% THD. 3 line-level inputs with tape monitor; coaxial, optical and RF digital

inputs; 5 video inputs including 2 monitor, S-video, and composite-video; 6-channel input and output; line-level audio outputs for all channels plus subwoofer; video monitor output. Soft-clipping circuitry. NAD link; 30 tuner presets; speaker A/B selector; system remote control. Amp: S/N 106 dB. FM: 50-dB quieting sens 36 dBf; S/N 75 dB mono, 67 dB stereo; THD 0.25%. Gray. 17⅛ x 6⅛ x 13¾ in; 36 lb $1,699

T750 210-W A/V Receiver
5 channels. Dolby Pro Logic and Hall modes. 50 W x 3 (front, center) + 30 x 2 (surround) or 50 x 2, all into 8 ohms from 20 Hz-20 kHz with 0.08% THD. 4 audio line inputs including 2 tape monitors; 4 video inputs including tape monitor; 6-channel input; line-level outputs for all channels plus subwoofer; video-monitor output. Dolby Digital ready; Impedance Sensing Circuitry (ISC) topology for power amp section; soft-clipping circuitry. NAD link; 30 tuner presets; system remote control. Amp: S/N 106 dB. FM: 50-dB quieting sens 36 dBf; S/N 73 dB mono, 67 dB stereo; THD 0.25%. Gray. 17⅛ x 4⅜ x 11½ in; 20 lb $699

Classic Series
C740 35-W/ch Receiver
2 channels. 35 W x 2 into 8 ohms or 35 x 2 into 4 ohms, both from 20 Hz-20 kHz with 0.03% THD. 6 line-level inputs including 2 tape loops; line-level output. Inpedance Sensing Circuitry (ISC) topology for power amp section; high-current amp design; soft-clipping circuitry. NAD link; tone defeat; 30 tuner presets; auto search; FM blend; FM tuning in 25-kHz steps; system remote control. Amp: S/N 104 dB. FM: 50-dB quieting sens 36.1 dBf; cap ratio 2.5 dB; THD 0.15%. Gray. 17⅛ x 4⅜ x 11½ in; 18 lb $499

NAKAMICHI

AV-10 500-W Dolby Digital/DTS Receiver
5 channels. Dolby Digital, DTS, Dolby Pro Logic, Hall, and Natural modes. 100 W x 5 into 8 ohms from 20 Hz-20 kHz with 0.1% THD. 2 coaxial optical inputs; 7 audio and 4 video inputs; 4 S-video input; 2 switched AC outlets. Harmonic Time Alignment amplifier topology; Programmable remote control. 3-yr warranty. 17 x 5½ x 14½ in; 35 lb $949

AV-7 400-W A/V Receiver
5 channels. Dolby Pro Logic, Hall, Natural, and Stadium modes. 80 W x 5 into 8 ohms from 20 Hz-20 kHz with 0.1% THD. 5 audio and 3 video inputs; 6-channel input; 2 switched AC outlets. Dolby Digital-ready; Harmonic Time Alignment amplifier topology. System remote control. 3-yr warranty. 17 x 5½ x 12 in; 28 lb $449

RE-10 100-W/ch Receiver
2 channels. 100 W x 2 into 8 ohms from 20 Hz-20 kHz with 0.1% THD. 3 audio and 2 video inputs; 2 outputs; 2 switched AC outlets. Harmonic Time Alignment amplifier topology. System remote control. 3-yr warranty. 17 x 5½ x 12 in; 28 lb $349

ONKYO

The following feature motor-driven volume controls.

Integra TX-DS939 500-W Dolby Digital Receiver
5 channels. Dolby Digital, Dolby Pro Logic, THX Home Cinema, and 11 adjustable ambience modes. 100 W x 5 or 120 x 2, both into 8 ohms. 4 audio inputs; 7 A/V inputs including S-video and composite video; AC-3 RF, coaxial, and 2 optical digital inputs; front-panel A/V input and output; 2 video-monitor outputs; line-level outputs for all channels; 3 switched AC outlets. Discrete amplifier-output stage; Lucasfilm ReEQ circuitry; cooling fan. Auto turn-on/off; on-screen display; auto acoustic analyzer with mic; 3-language on-screen display; direct-access tuning; 40 AM/FM presets with 4 groups; auto scan tuning; 8-character display; station naming; learning remote control with sleep timer. Amp: S/N 100 dB. FM: S/N 76 dB mono, 70 dB stereo; THD 0.2%. Black $2,800

Integra TX-DS838. As above, 90 W x 3 (front, center) + 50 x 2 (surround) or 120 x 2. 4 A/V inputs; 1 optical digital input; preprogrammed remote control; no THX or auto acoustic analyzer $1,500

TX-DS747 320-W Dolby Digital Receiver
5 channels. Dolby Digital, Dolby Pro Logic, and 12 ambience modes. 80 W x 3 (front, center) from 20 Hz-20 kHz with 0.08% THD + 40 x 2 (surround) or 90 x 2 from 20 Hz-30 kHz with 0.08% THD, all into 8 ohms. 4 audio inputs; 4 A/V inputs; 4 S-video inputs; 1 optical and 2 coaxial digital outputs; subwoofer output; 2 switched AC outlets. Motorola 24-bit DSP chip; Lucasfilm ReEQ circuitry; Timbre Matching circuitry. On-screen display; auto turn-on/off; bass control; auto scan tuning; character input; Onkyo RI System compatible; multiroom/multisource capability. Amp: S/N 70 dB. FM: S/N 76 dB mono, 70 dB stereo; THD 0.2%. Brushed-aluminum front panel. 17⅛ x 6⅛ x 15⅝ in; 29 lb $1,000

TX-SV828THX 370-W THX Receiver
5 channels. Dolby Pro Logic and 7 ambience modes. 90 W x 3 (front, center) + 50 x 2 (surround) or 100 x 2, all into 8 ohms. 4 S-video inputs; line-level outputs/main inputs for each channel; mono subwoofer output; front panel A/V input. Dolby Digital ready; bypassable subwoofer crossover; auto input balance; cooling fan; Motorola 24-bit DSP chip; multiroom capability. Adjustable digital display; 30 AM/FM presets with battery-free backup; 3 AM/FM preset groups with scan; direct station access; FM mute; sleep timer; on-screen display; Onkyo RI System compatible; programmable remote control. Amp: FR 20 Hz-20 kHz; THD 0.03%. 17¼ x 7 x 17¼ in; 33 lb $1,000

TX-SV646 300-W A/V Receiver
5 channels. Dolby Pro Logic and 6 ambience modes. 80 W x 3 (front, center) 20 Hz-20 kHz with 0.08% THD + 30 x 2 (surround) or 90 x 2 from 20 Hz-30 kHz with 0.8% THD, all into 8 ohms. 4 audio inputs; 4 A/V inputs; subwoofer output; 2 switched AC outlets. Dolby Digital ready; Motorola 24-bit DSP chip; Lucasfilm ReEQ circuitry; timbre-matching circuitry. On-screen display; auto turn-on/off; bass control; auto scan tuning; Onkyo RI System compatible; multiroom/multisource capability; learning remote control. Amp: S/N 70 dB. FM: S/N 76 dB mono, 70 dB stereo; THD 0.2%. Brushed-aluminum front panel. 17⅛ x 6⅞ x 15⅝ in; 27 lb $750

TX-SV545 245-W A/V Receiver
5 channels. Dolby Pro Logic and 5 ambience modes. 65 W x 3 (front, center) from 20 Hz-20 kHz with 0.08% THD + 25 x 2 (surround) or 75 x 2 from 20 Hz-30 kHz with 0.08% THD, all into 8 ohms. 7 audio and 3 video inputs; 6-channel input; subwoofer output; 2 switched AC outlets. Dolby Digital ready; Motorola 24-bit DSP chip; Lucasfilm ReEQ; timbre-matching circuitry. Character input; auto turn-on/off; bass control; auto scan tuning; Onkyo RI System compatible; multiroom/multisource capability; learning remote control. Amp: S/N 70 dB. FM: THD 0.2%. Brushed-aluminum front panel. 17⅛ x 6⅞ x 15⅝ in; 26 lb $580

TX-SV454 220-W Dolby Digital Receiver
5 channels. Dolby Digital, Dolby Pro Logic, Hall, and Live modes. 60 W x 3 (front, center) from 20 Hz-20 kHz + 20 x 2 (surround), both into 8 ohms with 0.08% THD or 70 x 2 into 8 ohms from 20 Hz-20 kHz with 0.08% THD. 6-channel input; 4 audio and 2 A/V inputs; 2 switched AC outlets; subwoofer output; headphone jack. Lucasfilm ReEQ circuitry; discrete amplifier-output stage. A/B speaker selector; auto turn-on/off; 30 AM/FM presets; 3 preset groups; auto scan tuning; 2-level display dimmer; bass, treble, and balance controls; learning remote control. Amp: S/N 100 dB. FM: AM Rej 40 dB; alt-ch sel 55 dB; S/N 73 dB mono, 67 dB stereo; THD 0.25%. Black $430

TX-SV444 220-W A/V Receiver
5 channels. Dolby Pro Logic, Hall, and Live modes. 60 W x 3 (front, center) from 20 Hz-20 kHz with 0.08% THD + 20 x 2 (surround) with 0.08% THD or 70 x 2 from 20 Hz-20 kHz with 0.03% THD, all into 8 ohms. 10 audio inputs; 2 video inputs; video output; 2 switched AC outlets. Discrete amplifier-output stage; Lucasfilm ReEQ circuitry. Onkyo RI System compatible; bass control. Amp: S/N 100 dB. FM: 50-dB quieting sens 32.2 dBf; AM Rej 40 dB; alt-ch sel 55 dB; S/N 67 dB stereo; THD 0.25%. Solid-aluminum front panel. 17⅛ x 4⅞ x 12⅝ in; 22 lb $429

TX-8511 100-W/ch Receiver
2 channels. 100 W x 2 rms into 8 ohms. 4 audio and 2 video inputs. A/V switching; 30 AM/FM presets with battery-free backup; 3 preset groups with scan; direct station access; FM mute switch; selective tone; sleep timer; Onkyo RI system remote control. Amp: S/N 100 dB. FM: THD 0.25%. 17⅛ x 5⅞ x 12¾ in; 20 lb $350

TX-SV343 180-W A/V Receiver
5 channels. Dolby Pro Logic and Hall modes. 50 W x 3 (front, center) from 20 Hz-20 kHz with 0.08% THD + 15 x 2 (surround) or 65 x 2 from 20 Hz-30 kHz with 0.08% THD, all into 8 ohms. 4 audio and 2 A/V inputs including tape monitor; subwoofer output. Discrete amplifier-output stage. Adjustable digital delay; 30 AM/FM presets; sleep timer; Onkyo RI System compatible. Amp: S/N 70 dB. FM: S/N 76 dB mono, 70 dB stereo. Solid-aluminum front panel. 17⅛ x 4⅞ x 12¾ in; 18 lb $350

TX-8211 50-W/ch Receiver
2 channels. 50 W x 2 rms into 8 ohms. 4 audio inputs. Auto tuner; reception-optimization system. 30 AM/FM station presets with battery-free backup; 3 preset groups; direct station access; FM mute switch; A/B speaker switch; fluorescent display; selective tone; sleep timer; Onkyo RI System remote control. Amp: FR 20 Hz-30 kHz; THD 0.08% at rated power. 17⅛ x 5⅞ x 12⅝ in; 18 lb $250

OPTIMUS BY RADIO SHACK

STA-3500 100-W/ch Receiver
2 channels. 100 W x 2 rms into 8 ohms from 40 Hz-20 kHz with 0.9% THD. 5 audio inputs, headphone jack. Digital tuning. Super bass switch; 30 memory presets; system remote control $200

STA-795 50-W/ch Receiver
2 channels. 50 W x 2 rms into 8 ohms from 40 Hz-20 kHz with 0.5% THD. 3 audio inputs; phono input. 6 AM/12 FM presets; auto FM muting; bass and treble controls; loudness switch; tape-monitor controls; 5-segment LED power meter $150

Professional Series
STAV-3690 500-W A/V Receiver
5 channels. Dolby Pro Logic, Dolby 3 Stereo, Theater, Studio, Arena, Hall, and Jazz Club modes. 100 W x 5 into 8 ohms with 0.8% THD or 100 x 2 into 8 ohms from 20 Hz-20 kHz with 0.09% THD. 6 audio inputs; 3 video inputs; front-panel RCA A/V input jacks; 2 video outputs; subwoofer output; line-level outputs. Motor-driven volume control; digital tuning. 30 station presets; electronic bass, treble, and balance controls; loudness control; programmable remote control. Amp: S/N 46 dB. FM: 50-dB quieting sens 38.6 dBf; alt-ch sel 60 dB; S/N 73 dB mono, 70 dB stereo; THD 0.5%. Black. 16⅝ x 6⅛ x 14/4> in; 20 lb $350

STAV-3680 500-W A/V Receiver
5 channels. Dolby Pro Logic, Dolby 3 Stereo, Theater, Studio, and Arena modes. 100 W x 5 with from 20 Hz-20 kHz into 0.8% THD or 100 x 2 into 8 ohms from 20 Hz-20 kHz with 0.09% THD. 6 audio inputs; 3 video inputs; 2 video outputs; subwoofer output; center-channel output. Motor-driven volume control; digital tuning. 30-station presets; rotary bass, treble, and balance controls; loudness control; system remote control. Amp: S/N 96 dB. FM: 50-dB quieting sens 38.6 dBf; alt-ch sel 60 dB; S/N 73 dB mono, 70 dB stereo; THD 0.5%. Black. 16⅝ x 6⅛ x 14¾ in; 20 lb $300

Receivers

STAV-3770 400-W A/V Receiver
5 channels. Dolby Pro Logic, Jazz Club, Hall, Dance, Theater-1 and 2 modes. 100 W x 3 (front, center) + 50 x 2 (surround) or 100 x 2, all into 8 ohms from 40 Hz-20 kHz with 0.9% THD. 5 audio inputs; 2 video inputs; 2 video outputs; subwoofer output. Motor-driven volume control; digital tuning. 30 station presets; electronic bass, treble, and balance controls; loudness control; system remote control. Amp: S/N 96 dB. FM: 50-dB quieting sens 38.6 dBf; alt-ch sel 60 dB; S/N 73 dB mono, 70 dB stereo; THD 0.5%. Black. 16⅝ x 5⅝ x 12⅞ in; 16 lb $230

PIONEER

VSX-D906S 500-W Dolby Digital Receiver
5 channels. Dolby Digital, Dolby Pro Logic, Dolby 3 Stereo, Jazz, Hall, Studio, and 2 Theater modes. 100 W x 5 at 1 kHz with 0.8% THD or 100 x 2 from 20 Hz-20 kHz with 0.09% THD, all into 6 ohms. AC-3 RF, coaxial, and optical digital audio inputs; 5 audio and 5 video; 4 S-video inputs; front-panel A/V input; 3 S-video outputs; 2-way binding posts for all channels; line-level outputs for all channels plus subwoofer. Motor-driven volume control. Discrete amplifier-output stage; electronic tone controls; On-Screen icon-based graphic interface including control and titling of 100-disc CD changers; 30 AM/FM presets with labeling and 5 classification groups; programmable remote with DSS and DVD control and multi-operation button. 16⅝ x 6⅜ x 16¾ in $1,200

VSX-D607S 500-W Dolby Digital Receiver
5 channels. Dolby Digital, Dolby Pro Logic, Jazz, Dance Club, Hall, Theater-1 and 2 modes. 100 W x 5 into 8 ohms at 1 kHz with 0.8% THD or 100 x 2 into 8 ohms from 20 Hz-20 kHz with 0.009% THD. 4 analog audio inputs; 5 composite-video inputs; 2 coaxial and 1 optical digital input. Learning remote control. Amp: S/N 97 dB. FM: 50-dB quieting sens 38.6 dBf; alt-ch sel 60 dB; S/N 73 dB mono, 70 dB stereo; THD 0.5%. Black. 16⅝ x 6¼ x 14¾ in; 21 lb $599
VSX-D557. As above, but learning remote is replaced with preprogrammed A/V remote control. 16⅝ x 6¼ x 14¾ in; 21 lb $449

VSX-D507S 500-W A/V Receiver
5 channels. Dolby Pro Logic, Jazz Club, Dance Club, Hall, Theater-1 and 2, and Dialog modes. 100 W x 5 into 8 ohms at 1 kHz with 0.8% THD or 100 x 2 into 8 ohms from 20 Hz-20 kHz with 0.09% THD. 3 audio inputs; 4 composite-video inputs; 6-channel input. Dolby Digital ready; digital signal processor; digital noise reduction. Amp: S/N 96 dB. FM: 50-dB quieting sens 38.6 dBf; alt-ch sel 60 dB; S/N 73 dB mono, 70 dB stereo; THD 0.5%. Black. 16⅝ x 6¼ x 14¾ in; 20 lb $349

VSX-D457 500-W A/V Receiver
5 channels. Dolby Pro Logic, Jazz, Dance Club, Hall, Theater-1 and 2, and Dialog modes. 100 W x 5 into 8 ohms at 1 kHz with 0.8% THD or 100 x 2 into 8 ohms from 20 Hz-20 kHz with 0.9% THD. 3 audio inputs; 3 composite-video inputs; 6-channel input. Dolby Digital ready. Remote control. Amp: S/N 96 dB. FM: 50-dB quieting sens 38.6 dBf; alt-ch sel 60 dB; S/N 73 dB mono, 70 dB stereo; THD 0.5%. Black. 16⅝ x 6¼ x 14¾ in; 20 lb $299

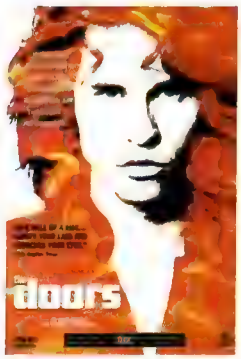
SX-255R 100-W/ch Receiver
2 channels. 100 W x 2 cont into 8 ohms from 40 Hz-20 kHz with 0.9% THD. 6 audio inputs. Motor-driven volume control. 30 station presets; memory scan tuning; motor-driven volume control; bass and treble controls; remote control $255
SX-205. As above without motor-driven volume control, 30 station presets, or remote $220

VSX-D407 400-W A/V Receiver
4 channels. Dolby Pro Logic, Jazz, Dance Club, Hall, Theater-1 and 2 modes. 100 W x 4 into 8 ohms at 1 kHz with 0.9% THD or 100 x 2 from 40 Hz-20 kHz with 0.9% THD. 3 audio, 2 video inputs; 6-channel input. Dolby Digital ready; digital signal processor. Tone defeat; preprogrammed remote. Amp: S/N 96 dB. FM: 50-dB quieting sens 38.6 dBf; alt-ch sel 60 dB; S/N 73 dB mono, 70 dB stereo; THD 0.5%. Black. 16⅝ x 5⅜ x 12⅞ in; 16 lb ...$245
VSX-D307. As above, but preprogrammed A/V remote is replaced with system remote. 16⅝ x 5⅜ x 12⅞ in; 16 lb $199

Elite Series
VSX-09TX 500-W THX Dolby Digital Receiver
5 channels. Dolby Digital, Dolby Pro Logic, Hall, THX, studio, Jazz, Theater-1, and 2 Theater modes. 100 W x 5 from 20 Hz-20 kHz with 0.8% THD or 110 x 2 from 20 Hz-20 kHz with 0.09% THD, all into 6 ohms. 5 audio and 5 video inputs; 5 S-video inputs; front-panel A/V input; line-level outputs for all channels plus subwoofer; 3 AC outlets. Copper chassis; heavy-duty power cord. Graphical user interface including control of CD changers; 30 AM/FM tuner presets; multiroom/multisource capability; preprogrammed/learning remote. Amp: S/N 97 dB. FM: 50-dB quieting sens 38.6; cap ratio 1 dB; alt-ch sel 65 dB; S/N 80 dB mono, 76 dB stereo. Rosewood side panels. 18 x 6½ x 16¾ in; 34 lb $1,750
VSX-07TX. As above without copper chassis, gold-plated terminals, and rosewood side panels. 16½ x 6⅝ x 16¾ in; 30 lb $1,450

VSX-14 500-W Dolby Digital Receiver
5 channels. Dolby Digital, Dolby Pro Logic, Jazz,

Does your home theater receiver remember your favorite movie?



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Hall, Dance Club, Theater 1 and 2 modes. 100 W x 5 into 8 ohms at 1 kHz with 0.8% THD or 100 x 2 into 8 ohms from 20 Hz-20 kHz with 0.09% THD. 3 audio, 4 composite-video inputs; 1 optical, 2 coaxial digital inputs; line-level outputs for all channels. THX-certified. Amp: S/N 97 dB. FM: 50-dB quieting sens 38.6 dBf; alt-ch sel 60 dB; S/N 70 dB mono, 73 dB stereo; THD 0.5%. Black. 16⅝ x 6⅜ x 15⅞ in; 21 lb ...$800

VSX-11 500-W Receiver
5 channels. Dolby Pro Logic, Studio, and Arena modes. 100 W x 5 into 8 ohms at 1 kHz with 0.8% THD or 100 x 2 from 20 Hz-20 kHz with 0.09% THD. 3 audio and 3 composite-video inputs; 6-ch input; binding-post speaker terminals; line-level outputs for all channels. Dolby Digital ready. Balance control. Amp: S/N 96 dB. FM: 50-dB quieting sens 38.6 dBf; alt-ch sel 60 dB; S/N 70 dB mono, 73 dB stereo; THD 0.5%. Black. 16⅝ x 6⅜ x 15¼ in; 20 lb ...$600

RCA

RV3798 200-W A/V Receiver
5 channels. Dolby Pro Logic, Dolby 3 Stereo, and Hall modes. 40 W x 5 or 40 x 2, all rms into 8 ohms from 20 Hz-20 kHz with 0.25% THD. 6-channel input; 5 audio inputs; 3 video inputs; dedicated DSS input; dual subwoofer outputs; headphone jack. Dolby Digital ready; PLL digital tuner. Surround memory (stores and recalls preferred surround settings for each source); two-color fluorescent display; speaker-level indicator; universal remote control. Amp: THD 0.25%. 16½ x 4¾ x 13 in; 26 lb $499

ROTEL

RSX965 400-W Dolby Digital/DTS Receiver
5 channels. Dolby Digital, DTS, Dolby Pro Logic, Concert, Hall, Stadium, and Music-1, 2, and 3 modes. 80 W x 5 into 8 ohms from 20 Hz-20 kHz with 0.03% THD. 2 coaxial and 2 optical digital inputs; 5 S-Video inputs; DB-25 input; 5.1 channel upgrade via DB-25 input; 6 RCA outputs; DB-25 output. On-screen display. Amp: S/N 100 dB. FM: AM Rej 60 dB; cap ratio 2 dB; alt-ch sel 65 dB; THD 0.3% stereo at 1 kHz. Black. 5-yr warranty. 17⅜ x 5 x 13½ in; 24 lb $1,200

RX-950AX 50-W/ch Receiver
2 channels. 50 W x 2 cont into 8 ohms. 4 inputs including phono; line-level output/main-in loops; main/remote speaker terminals; processor loop; 2 video inputs; 2 switched AC outlets; headphone jack. Motor-driven volume control. 16 AM/FM presets; tone defeat; remote control. Amp: FR 20 Hz-20 kHz –1 dB; S/N 100 dB. FM: 50-dB quieting sens 37.2 dBf stereo; cap ratio 1 dB; alt-ch sel 63 dB; S/N 75 dB stereo; THD 0.25% stereo. 17⅜ x 4⅞ x 13 in $600

SHERWOOD

RVD-9090 500-W Dolby Digital/DTS Receiver
5 channels. Dolby Digital, DTS, Dolby Pro Logic, Hall, Theater, Stadium, and Church modes. 100 W x 5 into 8 ohms 20 Hz-20 kHz with 0.05% THD. 2 coaxial digital inputs; 2 optical digital inputs; 5 video inputs; 6 audio inputs; 6-channel input; subwoofer output. Discrete amplifier-output stage; 20-bit D/A and A/D converters. Fluorescent display; DigiLink III remote control. FM: 50-dB quieting sens 36.1 dBf; cap ratio 1.0 dB; S/N 75 dB mono, 70 dB stereo; THD 0.4%. Black. 35 lb $850

RVD-7090 400-W Dolby Digital Receiver
5 channels. Dolby Digital, Dolby Pro Logic, Hall, Stadium, Theater, and Church modes. 80 W x 5 into 8 ohms from 20 Hz-20 kHz with 0.05% THD. Coaxial and optical digital inputs; 6 audio inputs; 5 video inputs; subwoofer output. Discrete amplifier-output stage; 20-bit D/A and A/D converters. Fluorescent display; DigiLink III remote control. FM: 50-dB quieting sens 40 dBf; cap ratio 1.25 dB; THD 0.4%. 28 lb $550

RVD-6090 250-W Dolby Digital Receiver
5 channels. Dolby Digital, Dolby Pro Logic, Hall, and Stadium modes. 50 W x 5 into 8 ohms from 20 Hz-20 kHz with 0.06% THD. Coaxial and optical digital inputs; 6 audio inputs; 4 video inputs; subwoofer output. Discrete amplifier-output stage. Fluorescent display; DigiLink III remote control. FM: 50-dB quieting sens 40 dBf; cap ratio 1.25 dB; THD 0.5%. Black. 24 lb $450

RV-5090 250-W A/V Receiver
5 channels. Dolby Pro Logic, Hall, and Stadium modes. 50 W x 5 into 8 ohms from 20 Hz-20 kHz with 0.08% THD. 6 audio inputs; 3 video inputs; subwoofer output. Discrete amplifier-output stage. Fluorescent display; DigiLink III remote control. FM: 50-dB quieting sens 40 dBf; cap ratio 2.0 dB; THD 0.5%. Black. 22 lb $350

RV-4080 200-W A/V Receiver
4 channels. Dolby Pro Logic, Hall, and Stadium modes. 50 W x 4 into 8 ohms from 20 Hz-20 kHz with 0.08% THD. 3 audio inputs; 6 video inputs. Discrete amplifier-output stage. Fluorescent display; DigiLink III remote control. FM: 50-dB quieting sens 40 dBf; cap ratio 2.0 dB; THD 0.5%. Black. 20 lb $250

Newcastle Series

R-945MKII 500-W Dolby Digital/DTS Receiver
5 channels. Dolby Digital, DTS, Dolby Pro Logic, Theater, Dolby 3 Stereo, Hall, Theater, Church, and

Why not?

INTRODUCING JVC'S
RX-1024VBK
DOLBY DIGITAL
RECEIVER

Imagine just putting in a tape or DVD and your entire system immediately kicks in and starts running perfectly. No hitting multiple buttons on the remote or messing with dozens of surround levels before the movie begins.

That's the kind of convenience you can only get from JVC. The AV COMPU LINK feature on our new RX-1024 receiver will automatically turn on all your JVC components—TV, VCR, DVD, CD, etc. If you're watching a movie, AV COMPU LINK remembers and instantly recalls all the listening settings you prefer for volume, bass, EQ, rear levels, delay times and more. The same holds true for your favorite CDs, MDs, cassettes, and radio stations.

And the RX-1024 is built to JVC world class performance standards too. That means a heavy duty transformer and 5 separate amplifiers with oversized capacitors and discrete outputs to deliver 100 watts of pure power to each channel. It means using only the most advanced microprocessing for onboard Dolby Digital and Dolby Pro Logic decoding. Not to mention assignable digital inputs that provide for future upgrades like Digital TV.

So check out the only surround sound receiver that always knows exactly what you expect from a movie—and delivers it every time. JVC's new RX-1024.

A JVC EXCLUSIVE
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Stadium modes. 100 W x 5 or 125 x 2, all into 8 ohms from 20 Hz-20 kHz with 0.05% THD. AC-3 RF, coaxial, and optical digital inputs; 6 audio and 4 video inputs; 5 main-amp inputs; S-video input and output; front-panel A/V input; 6 line-level outputs; subwoofer output; binding-post speaker terminals; 24k gold-plated input/output jacks. Discrete amplifier-output stage; digital encoder volume control. Sleep timer; Cinema Bass; test-tone generator; programmable video-input labeling; direct station access; 30 AM/FM presets; front-, center-, and surround-channel level controls; multiroom capability; DigiLink III preprogrammed universal remote with subwoofer-level control. Amp: S/N 101 dB. FM: 50-dB quieting sens 35.8 dBf; cap ratio 1.25 dB; S/N 80 dB mono, 73 dB Stereo; THD 0.25%. Titanium front panel, white display. 17⅜ x 3⅛ x 15 in; 34 lb $1,299
R-925MKII. As above, no DTS decoder $899

R-626 400-W A/V Receiver
5 channels. Dolby Pro Logic, Hall, and Stadium modes. 80 W x 5 into 8 ohms from 20 Hz-20 kHz with 0.05% THD. 2 coaxial digital inputs; optical digital input; 4 video inputs; 6 audio inputs; 5 line-level outputs. Discrete amplifier-output stage; 20-bit D/A and A/D converters. Direct station access; fluorescent display; DigiLink III remote control. FM: 50-dB quieting sens 35.8 dBf; AM Rej 70 dB; cap ratio 1.0 dB; adj-ch sel 70 dB; alt-ch sel 70 dB; S/N 75 dB mono, 70 dB stereo; THD 0.15%. Titanium. 3-yr warranty. 28 lb $700

R-326 250-W A/V Receiver
5 channels. Dolby Pro Logic, Hall, and Stadium modes. 50 W x 5 into 8 ohms from 20 Hz-20 kHz with 0.05% THD. 2 coaxial and 1 optical digital input; 4 video inputs; 6 audio inputs; 5 line-level outputs. Discrete amplifier-output stage; 24-bit digital processor. Direct station access; fluorescent display; DigiLink III remote control. FM: 50-dB quieting sens 36.1 dBf; cap ratio 1.25 dB; alt-ch sel 70 dB; S/N 80 dB mono, 73 dB stereo; THD 1.4%. Titanium. 3-yr warranty. 26 lb $500

SONY
Except as noted, the following have 5 channels and Dolby Pro Logic decoding.

ES Series
STR-DA90ESG 500-W Dolby Digital Receiver
Dolby Digital and 47 ambience modes. 100 x 5 into 8 or 4 ohms from 20 Hz-20 kHz with 0.05% THD. Triwirable inputs; preamp outputs. 30 tuner presets; remote control with joystick. FM: 50-dB quieting sens 38.3 dBf; alt-ch sel 60 dB; S/N 76 dB mono, 70 dB stereo; THD 0.59%. Black. 5-yr warranty. 17 x 6⅜ x 17⅛ in; 35 lb $1,600

STR-DA80ES 500-W Dolby Digital Receiver
Dolby Digital and 47 ambience modes. 100 W x 5 into 8 or 4 ohms from 20 Hz-20 kHz with 0.05% THD. Preamp outputs for all channels plus subwoofer. 30 tuner presets; tuner station naming and indexing; programmable remote control. FM: 50-dB quieting sens 38.3 dBf; alt-ch sel 60 dB; S/N 76 dB mono, 70 dB stereo; THD 0.59%. Black. 5-yr warranty. 17 x 6⅜ x 17⅛ in; 34 lb $1,200

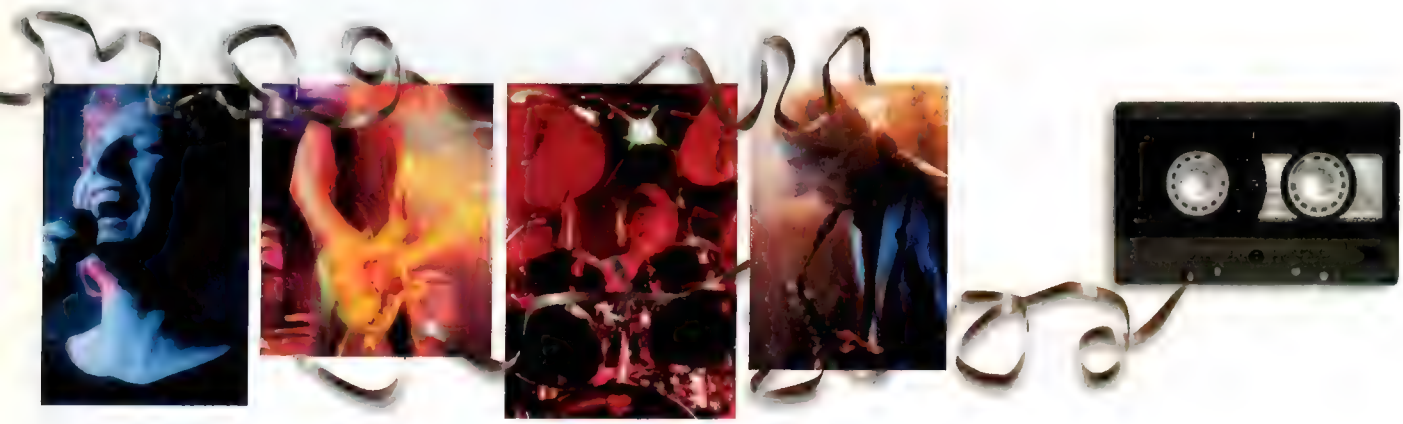
STR-GA8ES 460-W A/V Receiver
24 ambience modes. 120 W x 3 (front, center) from 20 Hz-20 kHz with 0.05% THD + 50 x 2 (surround) at 1 kHz with 0.08% THD, both into 4 or 8 ohms. 6 analog inputs; 5 video inputs; video-monitor input; S-video input and output; binding-post speaker terminals; subwoofer output. Discrete amplifier-output stage; digital-parametric EQ; adjustable DSP parameters; motor-driven volume control. S-link control; DSS receiver control; soundfield memory; programmable A/V remote control. FM: 50-dB quieting sens 38.3 dBf; alt-ch sel 60 dB; S/N 76 dB mono, 70 dB stereo; THD 0.59%. Black. 5-yr warranty. 17 x 6⅜ x 16¾ in; 32 lb $950

STR-GA7ES 350-W A/V Receiver
12 ambience modes. 90 W x 3 (front, center) into 8 or 4 ohms from 20 Hz-20 kHz with 0.05% THD + 40 x 2 (surround) into 8 ohms at 1 kHz with 0.8% THD. AC-3 RF input; preamp outputs for front, center, and subwoofer; parallel remote-speaker connection. 30 tuner presets; tuner station naming and indexing; programmable remote control. FM: 50-dB quieting sens 38.3 dBf; alt-ch sel 60 dB; S/N 76 dB mono, 70 dB stereo; THD 0.59%. 5-yr warranty. 17 x 6⅜ x 16¾ in; 30 lb $750

Hi-Fi Series
STR-DE915G 500-W Dolby Digital Receiver
Dolby Digital and 41 ambience modes. 100 W x 5 into 8 ohms at 1 kHz with 0.8% THD. Front-panel A/V input; subwoofer output; 5 video inputs; video monitor output; headphone jack; speaker binding post; wireless rear-speaker output. Auto input balance; discrete amplifier-output stage; frequency-synthesis tuning; auto tuning; motor-driven volume control. 10-function input selector; loudness and mute switches; 30 AM/FM preset; soundfield memory; tuner station naming and indexing; input indexing; 4/8-ohm switch; preprogrammed/ programmable remote control. Amp: FR 10 Hz-50 kHz ±1 dB line. FM: 50-dB quieting sens 38.3 dBf stereo; S/N 76 dB mono, 70 dB stereo. 17 x 6⅛ x 14⅛ in; 22 lb $1,799

STR-DE925 550-W Dolby Digital/DTS Receiver
Dolby Digital and 28 ambience modes. 110 W x 5 into 8 ohms at 1 kHz with 0.8% THD, or 110 x 2 into 4 or 8 ohms from 20 Hz-20 kHz with 0.09% THD. 3 op-

Is the music you record STILL held together with tape?



tical and 1 coaxial digital input; 5 audio inputs; 5 video inputs; S-link interface; optical digital output; 2 audio outputs; 3 video outputs; wireless rear-speaker output; 2 subwoofer outputs; headphone jack. 24- and 32-bit converter; discrete amplifier-output stage; push/pull design. 30 AM/FM presets; A/B speaker switch. FM: 50-dB quieting sens 38.3 dBf; alt-ch sel 60 dB; S/N 76 dB mono, 70 dB stereo; THD 0.5%. Black. 17 x 6¼ x 14½ in; 27 lb $700

STR-DE825 500-W Dolby Digital Receiver
Dolby Digital and 20 ambience modes. 100 W x 5 into 8 ohms at 1 kHz with 0.8% THD, or 100 x 2 into 4 or 8 ohms from 20 Hz-20 kHz with 0.09% THD. 3 optical and 1 coaxial digital input; 4 audio inputs; 4 video inputs; S-link interface; optical digital output; 3 video outputs; 2 subwoofer outputs; headphone output. 4/8-ohm switch; 30 AM/FM presets; station naming; A/B speaker switch; preprogrammed universal A/V remote control with LCD readout. FM: 50-dB quieting sens 38.3 dBf; alt-ch sel 60 dB; S/N 76 dB mono, 70 dB stereo; THD 0.5%. Black. 17 x 6¼ x 14½ in; 27 lb $600

STR-DE625 500-W A/V Receiver
100 W x 5 into 8 ohms at 1 kHz with 0.8% THD or 100 x 2 into 4 or 8 ohms. 4 audio inputs; 4 video inputs; 6-channel input; S-link interface; audio output; 3 video outputs; 2 subwoofer outputs; headphone jack. Dolby Digital ready. 30 AM/FM presets; station naming; adjustable delay time; A/B speaker switch; preprogrammed universal A/V remote control with LCD readout; fluorescent display. FM: 50-dB quieting sens 38.3 dBf; alt-ch sel 60 dB; S/N 76 dB mono, 70 dB stereo; THD 0.5%. Black. 17 x 6¼ x 14½ in; 27 lb $480

STR-DE525 500-W A/V Receiver
5 channels. 100 W x 5 or 100 x 2 into 8 ohms. 4 audio inputs; 2 video inputs; 6-channel input; 2 video outputs; wireless rear-speaker output; 2 subwoofer outputs; headphone jack. Dolby Digital ready; digital signal processor. 30 AM/FM presets; station naming; adjustable delay time; fluorescent display; A/B speaker switch; remote control. FM: 50-dB quieting sens 38.3 dBf; alt-ch sel 60 dB; S/N 76 dB mono, 70 dB stereo; THD 0.5%. Black. 17 x 6¼ x 14½ in; 27 lb $360

STR-DE425 400-W A/V Receiver
5 channels. 3 ambience modes. 100 W x 3 + 50 x 2 or 100 x 2 into 8 ohms. 3 audio inputs; 2 video inputs; 6-channel input; 2 video outputs; subwoofer output; headphone jack. Dolby Digital ready. A/B speaker switch; remote control with glow keys. FM: 50-dB quieting sens 38.3 dBf; alt-ch sel 60 dB; S/N 76 dB mono, 70 dB stereo; THD 0.5%. Black. 17 x 5⅝ x 11⅝ in; 17 lb $300

STR-DE325 400-W A/V Receiver
4 channels. 3 ambience modes. 100 W x 4 or 100 x 2 into 8 ohms. 3 audio inputs; 2 video inputs; subwoofer output; headphone jack. 5-function input selector; 30 AM/FM presets; A/B speaker switch; fluorescent display; remote control with glow keys. FM: 50-dB quieting sens 38.3 dBf; alt-ch sel 60 dB; S/N 76 dB mono, 70 dB stereo; THD 0.5%. Black. 17 x 5⅝ x 11⅝ in; 17 lb $250

STR-DE315 240-W A/V Receiver
4 channels. Dolby Pro Logic. 60 W x 4 into 8 ohms at 1 kHz with 0.8% THD. 4 audio inputs including phono; 2 video inputs; headphone jack; AC outlet. Discrete amplifier-output stage; motor-driven volume control. 30 AM/FM preset; bass boost; loudness and mute switches; A/V system remote. Amp: FR 10 Hz-50 kHz ±1 dB line; S/N 70 dB. FM: 50-dB quieting sens 38.3 dBf. 17 x 5⅞ x 11⅝ in; 15 lb $199

TEAC

AG-D9200 590-W A/V Receiver
5 channels. Dolby Pro Logic, Dolby 3 Stereo, Theater, and Hall modes. 130 W x 3 (front, center) from 20 Hz-20 kHz with 0.09% THD + 100 x 2 (surround) with 0.05% THD, all rms into 8 ohms. 4 audio inputs; 3 video inputs. Motor-driven volume control. 4-channel reference-level adjust function; 30 AM/FM presets; bass and treble controls; A/B speaker switch; sleep timer; remote control. Amp: S/N 70 dB. FM: 50-dB quieting sens 50 dB stereo; AM Rej 55 dB; cap ratio 2.0 dB. Black. 17⅛ x 6½ x 13½ in $399

AG-380 32-W/ch Receiver
2 channels. 32 W x 2. 4 audio inputs. AM/FM quartz PLL-synthesized tuner. 24 AM/FM presets; auto/manual tuning; bass and treble controls; loudness button; LCD. Amp: S/N 80 dB. FM: 50-dB quieting sens 42 dBf; cap ratio 3 dB; S/N 65 dB mono, 62 dB stereo; THD 0.05%. Black. 17⅛ x 5¼ x 13⅛ in; 29 lb $199

TECHNICS

The following 6-channel A/V receivers all feature enhanced Class H+ amplifier circuitry and include Dolby Pro Logic and Dolby 3 Stereo modes, 6-channel analog audio inputs for use with an external digital surround decoder, a quartz-locked digital frequency-synthesis AM/FM tuner, a keypad for direct station access, and a universal remote control.

SA-AX6 600-W A/V Receiver
6 channels. 100 W x 6 into 6 ohms from 20 Hz-20 kHz with 0.05% THD. 4 audio inputs; 5 video inputs; S-video output. Subwoofer-level control; cut-off frequency control; sound-field control; LED dis-

Why?

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COMBINATION DECK

Tape? You're still using tape? Why? Now you can digitally record, edit, mix, insert, re-record, index, title, change pitch and add voice-overs with JVC.

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play. Amp: S/N 75 dB. FM: 50-dB quieting sens 38.3 dBf; AM Rej 50 dB; cap ratio 1.5 dB; alt-ch sel 65 dB; S/N 67 dB stereo; THD 0.3%. 17 x 6¼ x 15 in; 24 lb $400

SA-AX720 600-W A/V Receiver
6 channels. 100 W x 6 into 8 ohms from 20 Hz-20 kHz with 0.05% THD or 100 x 5 into 8 ohms at 1 kHz with 0.9% THD. 4 audio inputs; 5 video inputs; subwoofer output. Amp: S/N 75 dB. FM: 50-dB quieting sens 38.3 dBf; AM Rej 50 dB; cap ratio 1.5 dB; alt-ch sel 65 dB; S/N 67 dB stereo; THD 0.3%. 17 x 6¼ x 12⅜ in; 25 lb $350

SA-AX920 600-W A/V Receiver
6 channels. 100 W x 6 into 8 ohms from 20 Hz-20 kHz with 0.05% THD. 4 audio inputs; 4 video inputs; Loudness control. Amp: S/N 75 dB. FM: 50-dB quieting sens 38.3 dBf; AM Rej 50 dB; cap ratio 1.5 dB; alt-ch sel 65 dB; S/N 67 dB stereo; THD 0.3%. 17 x 6¼ x 12⅜ in; 25 lb $350

SA-EX320 320-W A/V Receiver
4 channels. Dolby Pro Logic and Dolby 3 Stereo modes. 80 W x 4 into 8 ohms from 40 Hz-20 kHz with 0.8% THD. 4 audio inputs; 2 video inputs; subwoofer output. Quartz-locked digital frequency-synthesis AM/FM tuner; keypad for direct station access; remote control. Amp: S/N 75 dB. FM: 50-dB quieting sens 38.3 dBf; cap ratio 1.5 dB; alt-ch sel 65 dB; S/N 67 dB stereo; THD 0.3%. 16 x 5⅜ x 12¼ in; 19 lb $200

SA-EX110 100-W/ch Receiver
2 channels. 100 W x 2. 4 audio inputs; 1 video input. Quartz-locked digital frequency-synthesis tuner; 30 AM/FM presets; A/V remote control; A/B speaker switch. Amp: S/N 70 dB phono, 78 dB line. FM: 50-dB quieting sens 38.3 dBf; AM Rej 50 dB; cap ratio 1 dB; alt-ch sel 65 dB; S/N 75 dB mono, 70 dB stereo; THD 0.3%. 17 x 5⅜ x 5⅛ in; 34 lb $180

TOSHIBA

XB1507 500-W Dolby Digital Receiver
5 channels. Dolby Pro Logic, Dolby Digital, and 5 ambience modes. 100 W x 5 or 100 x 2. AC-3 RF and coaxial digital inputs; front-panel A/V input; subwoofer and center-channel line-level outputs; composite-video output. Multiroom two-channel capability. Graphical front-panel display; loudness control; A/B speaker switch; preprogrammed/learning remote control $999

YAMAHA

A/V Receivers
The following A/V receivers all include standard Dolby Pro Logic and feature a motor-driven volume control, 40 AM/FM presets, and a sleep timer.

RX-V2092 550-W Dolby Digital Receiver
7 channels. Dolby Digital, Jazz, Rock Concert, Digital Theater, TV Sports, Concert Hall, Disco, Church, Stadium, Cinema, and Tri-field modes. 100 W x 5 from 20 Hz-20 kHz with 0.02% THD + 25 W x 2 (front effect) at 1 kHz with 0.05% THD. 5 A/V inputs with S-video connectors; front-panel aux inputs; 4 audio inputs; 6 line-level outputs; subwoofer output; line-level output/main input; banana-plug speaker terminals; 3 switched AC outlets. Multiroom capability. On-screen display; bass boost; main remote control with macro and learning capabilities; remote control for second room. Amp: S/N 96 dB. FM: 50-dB quieting sens 37.7 dBf; alt-ch sel 85 dB; S/N 80 dB mono, 75 dB stereo; THD 0.2%. Black. 17⅛ x 6¾ x 18¾ in; 44 lb $1,599

RX-V992 400-W Dolby Digital Receiver
5 channels. Dolby Digital, Cinema modes. 80 W x 2 (front) from 20 Hz-20 kHz with 0.04% THD + 80 x 1 (center) from 20 Hz-20 kHz with 0.07% THD + 80 x 2 (surround) at 1 kHz with 0.3% THD. 5 A/V inputs with S-video connectors; optical and coaxial digital inputs; 5 audio inputs; 5 line-level outputs; subwoofer output; 3 switched AC outlets. On-screen display; remote control with macro and learning capabilities. Amp: S/N 96 dB. FM: 50-dB quieting sens 37.7 dBf; alt-ch sel 85 dB; S/N 75 dB stereo; THD 0.2%. Black. 17⅛ x 6¾ x 15¾ in; 30 lb $999

RX-V793 400-W Dolby Digital Receiver
5 channels. Dolby Digital, Enhanced Dolby Pro Logic, Concert Hall, Stadium, Disco, TV Sports, Hall, Rock Concert, Jazz Club, Church, and Tri-field Cinema modes. 80 W x 5 into 8 ohms from 20 Hz-20 kHz with 0.04% THD. 4 A/V inputs with S-video connectors; subwoofer output; 2 switched AC outlets. On-screen display; learning remote control with macros. Amp: S/N 96 dB. FM: 50-dB quieting sens 37.7 dBf; alt-ch sel 85 dB; S/N 75 dB stereo; THD 0.2%. Black. 17⅛ x 5⅜ x 15 in; 27 lb $799

RX-V592 295-W A/V Receiver
5 channels. Enhanced Dolby Pro Logic, Stadium, Disco, Concert Hall, Rock Concert, Mono Movie, and Cinema modes. 75 W x 2 (front) from 20 Hz-20 kHz with 0.04% THD + 75 x 1 (center) at 1 kHz with 0.07% THD + 35 x 2 (surround) at 1 kHz with 0.3% THD, all rms into 8 ohms. 4 A/V inputs; 4 audio inputs; 2 switched AC outlets. Remote control with built-in macros and learning capability. Amp: S/N 96 dB. FM: 50-dB quieting sens 37.7 dBf; alt-ch sel 85 dB; S/N 80 dB mono, 75 dB stereo; THD 0.2%. Black. 17⅛ x 6 x 15 in $499

RX-V493 250-W A/V Receiver
5 channels. Enhanced Dolby Pro Logic, Concert Hall, Rock Concert, Mono Movie, Disco, Stadium, and Concert Video modes. 70 W x 2 (front) from 20 Hz-20 kHz with 0.04% THD + 70 x 1 (center) at 1 kHz with 0.09% THD + 20 x 2 (surround) at 1 kHz with 0.7% THD, all rms into 8 ohms. 6-channel input; 4 audio and 3 A/V inputs. Dolby Digital ready; system remote control. Amp: S/N 96 dB. FM: 50-dB quieting sens 37.7 dBf; alt-ch sel 85 dB; S/N 80 dB mono, 75 dB stereo; THD 0.2%. 17⅛ x 5⅜ x 10½ in $399

RX-V393 190-W A/V Receiver
5 channels. Enhanced Dolby Pro Logic, Disco, Concert Hall, Concert Video, Stadium, Mono Movie, and Rock Concert modes. 50 W x 2 (front) from 20 Hz-20 kHz with 0.04% THD + 50 x 1 (center) at 1 kHz with 0.09% THD + 20 x 2 (surround) at 1 kHz with 0.7% THD, all into 8 ohms. 6-channel input; 2 A/V inputs; 4 audio inputs; 2 switched AC outlets. Dolby Digital ready; remote control. Amp: S/N 96 dB. FM: 50-dB quieting sens 37.7 dB; alt-ch sel 85 dB; S/N 80 dB mono, 75 dB stereo; THD 0.2%. Black. 17⅛ x 5⅜ x 10½ in $299

Stereo Receivers
The following all have 40 AM/FM presets, infrared input and output ports, and a sleep timer.

RX-770 85-W/ch Receiver
2 channels. 85 W x 2 into 8 ohms from 20 Hz-20 kHz with 0.019% THD. 4 audio and 2 video inputs; 3-way binding posts; line-level output/main inputs for each channel. Direct-PLL IF-count synthesis tuning; source-direct mode. Variable loudness control; bass, treble, and balance controls; record-out selector; A/B speaker switching; signal-strength meter; remote control $549

RX-V596 80-W/ch Receiver
2 channels. 80 W x 2 rms into 8 ohms from 20 Hz-20 kHz with 0.019% THD. 4 audio and 2 A/V inputs; 2-way speaker terminals. Direct PLL IF-count synthesizer tuning; anti-vibration construction. Record-out selector; A/B speaker switching; system remote control. 17⅛ x 5¾ x 15¼ in $399

RX-495 75-W/ch Receiver
2 channels. 75 W x 2 into 8 ohms from 20 Hz-20 kHz with 0.04% THD. 6 audio and 2 tape inputs; 2 switched AC outlets; headphone jack. Continuously variable loudness control; motor-driven volume control; bass, treble, and balance controls; auto station memory and preset editing. Amp: S/N 82 dB phono, 108 dB mono. FM: 50-dB quieting sens 37.7 dBf stereo; alt-ch sel 85 dB; S/N 75 dB stereo. 17⅛ x 5¾ x 11¼ in; 17 lb $299

RX-396 50-W/ch Receiver
2 channels. 50 W x 2 into 8 ohms from 20 Hz-20 kHz with 0.04% THD. 5 audio inputs; 1 tape input; 2 switched AC outlets; banana-jack speaker terminals; headphone jack. Input selector; motor-driven volume control; direct PLL IF-count synthesizer tuning. Continuously variable loudness control; bass, treble, and balance controls; A/B speaker selector; 10-segment signal-strength meter. Amp: S/N 82 dB phono, 108 dB line. FM: 50-dB quieting sens 37.7 dBf stereo; alt-ch sel 85 dB; S/N 75 dB stereo. 17⅛ x 5¾ x 11¼ in; 14 lb $249

Natural Sound Series
The following all feature direct-PLL IF-count frequency-synthesis tuning and include standard Dolby Pro Logic, 40 AM/FM presets, a motor-driven volume control, and a sleep timer.

RX-V2095 250-W Dolby Digital/DTS Receiver
7 channels. DTS, Dolby Digital, Enhanced Dolby Pro Logic, Concert Hall, Church, Rock Concert, Jazz Club, Entertainment, Stadium modes. 100 W x 5 from 20 Hz-20kHz with 0.02% THD + 25 x 2 (front effect) at 1 kHz with 0.05% THD, all into 8 ohms. 2 coaxial and 4 optical digital inputs; 6-channel input for outboard surround decoder; 5 A/V inputs with S-video connectors; 4 audio inputs; 5 line-level outputs; subwoofer output; 2 switched AC outlets, 1 unswitched. Multiroom capability. Balance control; record-out selector; mute, bass-boost, and subwoofer-level controls; on-screen menu; speaker A/B selector; remote control with macros and learning capability; test-tone generator. Amp: S/N 96 dB; ch sep 60 dB. FM: 50-dB quieting sens 37.7 dBf; AM Rej 55 dB; cap ratio 1.5 dB; alt-ch sel 85 dB; S/N 80 dB mono, 75 dB stereo; THD 0.2%. Black. 17⅛ x 6¾ x 18¾ in; 44 lb $1,599

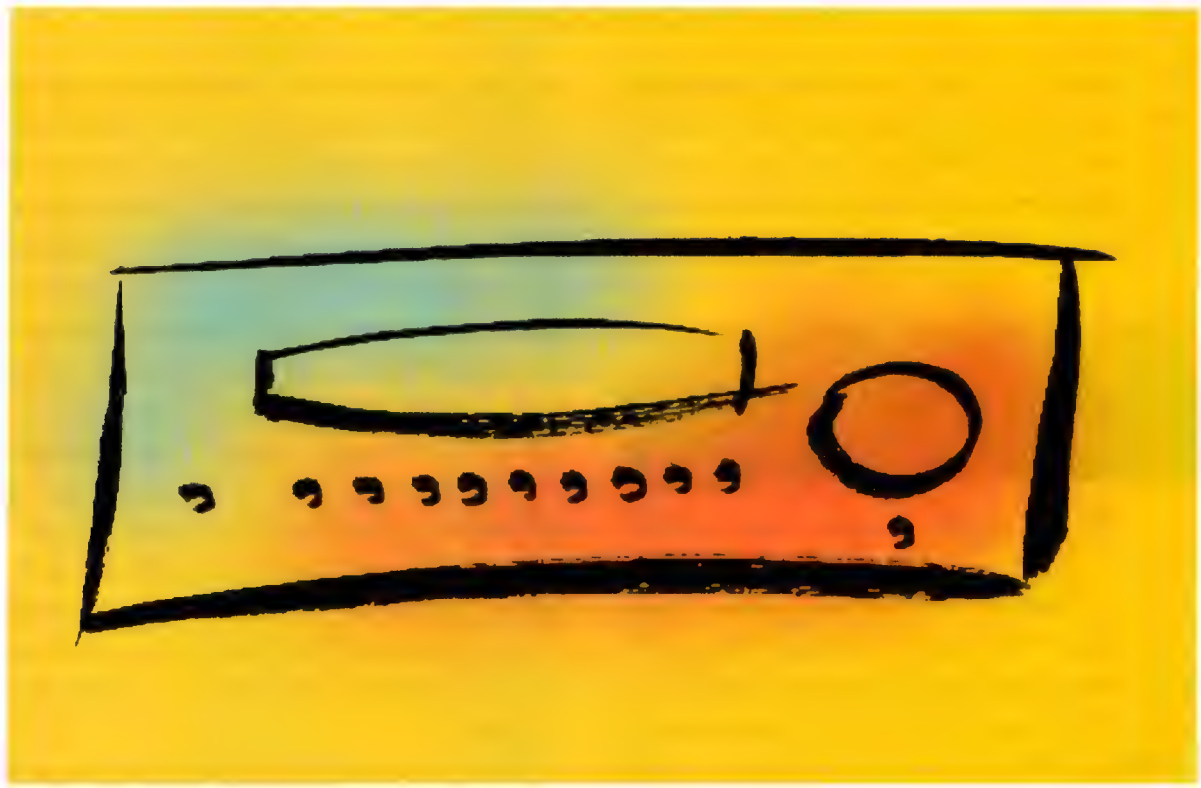
RX-V795 425-W Dolby Digital/DTS Receiver
5 channels. Dolby Digital, DTS, Concert Hall, Church, Rock Concert, Jazz Club, Disco modes. 85 W x 2 (front) from 20 Hz-20 kHz with 0.04% THD + 85 x 3 (center, surround) from 20 Hz-20 kHz with 0.07% THD, all into 8 ohms. 3 coaxial and 1 optical digital input; 6-channel input for external decoder; 4 A/V inputs with 2 S-video connectors; 4 audio inputs; 5 outputs; 2 switched AC outlets. Mute, bass-boost, and subwoofer-level controls; on-screen menu; A/B speaker selector; universal remote control. Amp: S/N 96 dB; ch sep 60 dB. FM: 50-dB quieting sens 37.7 dBf; AM Rej 55 dB; cap ratio 1.5 dB; alt-ch sel 85 dB; S/N 80 dB mono, 75 dB stereo; THD 0.2%. Black. 17⅛ x 6¾ x 15⅜ in; 26 lb $799

RX-V595 350-W Dolby Digital Receiver
5 channels. Dolby Digital, Enhanced Dolby Digital, Enhanced Dolby Pro Logic, Concert Hall, Rock Concert, Disco, and 3 other modes. 70 W x 2 (front) with 0.04% THD + 70 x 3 (center, surround) with 0.07% THD, all into 8 ohms from 20 Hz-20 kHz. 2 coaxial and 1 optical digital input; 6-channel input; 4 A/V inputs with 2 S-video connectors; 4 audio inputs; 5 audio outputs; 2 switched AC outlets. 40 AM/FM presets; subwoofer-level control; speaker A/B switch; universal remote control. Amp: S/N 96 dB; ch sep 60 dB. FM: 50-dB quieting sens 37.7 dBf; AM Rej 55 dB; cap ratio 1.5 dB; alt-ch sel 85 dB; S/N 80 dB mono, 75 dB stereo; THD 0.2%. Black. 17⅛ x 6¾ x 15⅜ in; 26 lb $499

RX-V293 170-W A/V Receiver
4 channels. Dolby 3 Stereo, Rock Concert, and Concert Hall modes. 50 W x 2 (front) from 20 Hz-20 kHz with 0.04% THD + 50 x 1 (center) at 1 kHz with 0.04% THD + 20 x 1 (surround) at 1 kHz with 0.04% THD, all into 8 ohms. 2 A/V inputs; 4 audio inputs; 1 monitor output; 2 switched AC outlets. Balance control; test-tone generator; remote control. Amp: S/N 93 dB; ch sep 60 dB. FM: 50-dB quieting sens 37.7 dBf; AM Rej 55 dB; cap ratio 1.5 dB; alt-ch sel 85 dB; S/N 80 dB mono, 75 dB stereo; THD 0.2%. Black $219

Nothing is more simple than greatness.

— Ralph Waldo Emerson



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Amplifiers

A quick guide to preamps, power amps, and integrated amplifiers

Without an amplifier you would own the world's quietest audio system — so quiet you couldn't hear it at all. In its most basic form, an amplifier accomplishes the "heavy lifting" of an audio system. It takes a small electrical signal and makes it bigger. Just *how* big depends on the kind of an amplifier it is. Audio amplifiers

PROTON AP-2000 PREAMPLIFIER

fall into three categories: preamplifiers, which handle line-level signals, or bring low-level signals up to line level; power amplifiers, which boost signals to a level that can drive headphones and speakers; and integrated amplifiers, which combine preamp and power-amp functions in one component, considerably reducing the task of hooking up a system.

Designers can choose from a variety of possible amplifier operating modes, beginning with Class A (see Glossary, page 243) and going through Class H. To this alphabet soup, manufacturers add their own seasonings — circuit refinements denominated by "super," "plus," and whatever else they like. Most engineers and audiophiles agree that Class A operation produces the least distortion, but with a substantial penalty in terms of efficiency and cost. Most audio amps use a variation of Class AB, and a well-designed Class AB amplifier can sound as good as a pure Class A amp.

Many of the other classes, usually limited to the proprietary designs of certain manufacturers, can also sound very good. Class D denotes "digital" amplification, such as pulse-width modulation. Except for the amplifiers used in a few powered subwoofers, you won't find very many Class D home power amps, but several car power amps employ this design because of its very high efficiency. The way an engineer designs a circuit is every bit as important as its operating class.

Similarly, different kinds of devices can amplify a signal, from vacuum tubes to transistors. One of the hottest debate among enthusiasts is whether tubes or transistors sound better and precisely which types of transistor are best. Thus, you'll see mention of MOSFETs and other specific types of output transistors in the power-amp listings. Keep in mind that the amplification device is not as important as the circuit design that employs it. Some amplifier output stages are built from discrete components (individual tubes, transistors, and so on), while others use integrated circuits. Again, the overall circuit design is more important than whether discrete or integrated devices are used.

In the days of the analog phonograph record, a preamp was essential. The minuscule output of a phono cartridge had to be boosted before it could drive a power amp, let alone a pair of headphones. Most other components, such as tape decks and CD players, contain their own internal preamps that boost their outputs to line-level. If desired, these could drive a power amp directly (albeit without control of volume) and probably even a pair of headphones.

However, in most systems the preamp does more than simply amplify very small signals. All the other components in a system send their audio signals to the preamp, which then allows you to select which one you wish to listen to. It also lets you adjust the volume and balance and, usually, select inputs and outputs for recording (tape loops and record loops). Depending on the manufacturer's design philosophy, the preamp may also provide tone controls and other signal-processing circuits. For example, an A/V preamp includes onboard surround-sound processing for both movies and music. It might even have a headphone jack.

ADCOM GFA-5006 AMPLIFIER

When choosing a preamp or integrated amplifier — especially if you're looking at A/V modes for use in a home-theater setup — be sure it has enough inputs and record loops to accommodate

not only the source components you currently own, but any you plan to add in the future.

The power amp, the muscle of the system, pumps up the signal enough to make your speakers sing. For all their brawn, power amplifiers can be delicate. Running an amp with a short circuit between the speaker terminals can wreak havoc. The better designed the amp, the less chance it will suffer catastrophic damage should something go awry. Home-amplifier power ratings are regulated by the Federal Trade Commission (FTC), so you can generally compare apples with apples. Surround-sound amplifiers sometimes fudge a bit by rating the front channels according to the FTC standard but using a slightly less stringent standard for the surround channels. For example, the distortion in the surround channels might be higher, or they may be rated at a single frequency (usually 1 kHz) rather than across the entire audio spectrum (20 Hz to 20 kHz).

Most manufacturers rate power into an 8-ohm load, the nominal impedance of many speakers, which range from over 8 ohms to as little as 2 ohms. Ideally, all amplifiers would produce considerably more power into lower impedances, which is why you may see an amplifier rated at 100 watts into 8 ohms also rated at 200 watts into 4 ohms. Some companies also rate "peak power," or how much power above its FTC rating the amplifier can momentarily deliver on musical peaks. Finally, some companies rate "dynamic headroom," in decibels. This gives a better idea of how much an amplifier can exceed its rated power because decibels relate more directly to perceived increases in output level (1 dB is OK, 3 dB is superb). Just as extra horsepower in a car will not necessarily make the car go faster, extra amplifier power will not necessarily make it play louder. It takes about a doubling in power to increase the maximum attainable level noticeably. But more power in reserve means less chance of "clipping" distortion on peaks, so it's a good idea to buy as much power as you can afford (as long as your speakers can handle it). *—Rich Warren*

MARANTZ PM-17 INTEGRATED AMPLIFIER

Preamplifiers

ACCUPHASE

DC-300 Digital Preamplifier
3 digital inputs and outputs including record loop; external processor loop. Digital level-attenuator with noise shaping; MMB-type D/A converter for 20-bit linearity; PLL circuit; DSP tone control. Remote control. THD 0.002%; S/N 122 dBA; max output 5 V rms. 19 x 5⅞ x 16 in; 48 lb $16,500
AI-AD1. Analog phono input $985
AO-B1. Analog XLR output $795
AO-U1. Unbalanced analog output $700
AI-B1. Analog XLR input $595
AO1-U1. RCA analog input and output $595
DIO-PRO1. AES/EBU input and output $595
AI-U1. Unbalanced analog input $505
DI-OC1. Coaxial digital input and output $420
DI-ST1. ST optical digital input $420
DI-BNC1. BNC coaxial digital input $350

C-290 Preamplifier
XLR and RCA inputs and outputs; MM/MC phono input; 2 tape loops. Attenuator switch; switchable subsonic filter; output-phase and mono/stereo switches; tape-dubbing capability; balance control. FR 20 Hz-20 kHz ±0.2 dB line; S/N 95 dB line. 19 x 6 x 16¼ in; 53 lb $14,895
AD-290. Phono stage for above $3,495

C-275 Preamplifier
XLR and RCA inputs and outputs; headphone jack. Current feedback topology; dual mono construction; logic-control relays for short signal paths; dedicated headphone amplifier; switchable infrasonic filter. EQ gain selector; supplied remote commander. 19¼ x 5⅞ x 16¼ in; 43 lb $7,995
AD-275. Phono stage for above $1,825

C-265 Preamplifier
6 line-level inputs; 2 XLR and 2 RCA outputs. Line-amp with current feedback topology; balanced output stage with bridged feedback; logic-controlled relays for short signal paths. Remote control. THD 0.005%; S/N 106 dBA; max output 6 V rms. 19 x 6 x 16 in $5,200

C-250 Preamplifier
XLR and RCA inputs and outputs; headphone jack. Line-amp topology with bridged feedback; 2 sets of separately housed power transformers and filtering capacitors in dual-mono configuration; separate amp housings for left and right channels; logic-controlled relays; gold-plated glass-epoxy printed-circuit board; infrasonic filter; separate headphone amplifier; motor-driven mirror-finished volume control. Remote source switching and volume-level control; balance control. FR 20 Hz-20 kHz; THD 0.005%. 18¾ x 5½ x 16½ in; 30 lb $3,200
AD-250. MM/MC phono EQ for the above. S/N 88 dB MM, 85 dB MC $535

ACURUS

RL11 Preamplifier
2 tape outputs; 2 line-level outputs. Hand-crafted construction; pure-discrete Class A design; dual-mono DC power supplies; silver-to-silver switching contacts; 1% metal-film resistors; metallized polypropylene capacitors. Remote control with volume, balance, and mute controls. 19-in front panel optional. FR 20 Hz-20 kHz ±0.1 dB; THD 0.05%; S/N 95 dBA. 17 x 3½ x 8 in; 14 lb $799
LSII. As above without remote control $649

P10 Phono Preamplifier
MM/MC input. Full Class A design without integrated circuits; dual-mono DC power supply; 2-sided military-spec glass-epoxy circuit board; 1% metal-film resistors; metallized polypropylene capacitors; steel chassis. 3 selectable gains; 6 selectable MC input impedances. 19-in front panel optional. S/N 80 dBA MM. 17 x 3 x 8 in $395

ADCOM

GTP-740 A/V Preamplifier/Tuner
Dolby Digital, Dolby Pro Logic, Cinema, Hall, Stadium, Jazz Club, and 5-Channel Stereo modes. CD, tape, DVD, digital-aux, digital-RF, laserdisc, VCR, and video-aux inputs; VCR, tape, second room, left, right, center, left surround, right surround, and 2 subwoofers outputs; infrared rear-panel input. Class A output stage; digital bass management; 20-bit D/A and A/D converters; 20-bit filters; 24-bit DSP. Ball system video routing; learning remote control. 17 x 4 x 12 in $1,750

GFP-750 Preamplifier
5 high-level RCA inputs; 1 high-level XLR input; 1 each XLR and RCA outputs; tape and processor loops. MOSFET design; discrete Class A circuits; double-copper-plated glass-epoxy printed circuit board. Remote control for volume, balance, and input select $1,250

GTP-600 A/V Preamplifier/Tuner
Dolby Pro Logic, Cinema augmentation of Dolby Pro Logic and other surround modes. 4 line-level inputs; 4 composite/S-video inputs; 2 monitor outputs; subwoofer output; gold-plated RCA connectors. Variable surround-channel delay up to 100 ms; on-screen display; learning remote control. FR 20 Hz-20 kHz ±0.5 dB; THD 0.005%; S/N 100 dB. 17 x 4¼ x 12¾ in; 17 lb $1,100

GFP-710 Preamplifier
CD, tuner, tape, and video/aux inputs; MM phono input; external processor loop; main output. Class A

design; motor-driven volume control. Tone defeat; remote control. FR 5 Hz-100 kHz ±0.5 dB; THD 0.007%; S/N 95 dB. 17 x 3⅞ x 12 in; 15 lb $600

GTP-450 Preamplifier/Tuner
5 line-level inputs; signal-processor loop. Quartz-referenced digital tuner; motor-driven volume control. 14 AM/FM presets; remote control. FR 20 Hz-20 kHz ±0.5 dB; THD 0.0075%; S/N 95 dB. 17 x 3¼ x 12¼ in; 14 lb $500
GTP-350. As above without motor-driven volume and remote control. No processor loop. With selectable listen and record-outputs $400

A/D/S/

SC4 4-Zone Preamplifier
8 A/V inputs. 4 stereo zones digitally controlled from remote-located control panels (CP8); source control from control panels; fully programmable; door bell/phone-activated muting; expandable to 24 rooms. FR 20 Hz-20 kHz ±0.5 dB $2,500

AESTHETIX

Callisto Line Stage Tube Preamplifier
6 line-level inputs; XLR and RCA inputs and outputs. 14 tubes. 4 gang-XLR discrete-stepped volume controls. 80 lb $8,000

Io Phono Stage Tube Preamplifier
RCA or XLR inputs and outputs. Dual-mono design; chassis; 22 tubes. Adjustable gain; adjustable input impedance. 80 lb $5,000

AIR TIGHT

ATE-2 Phono Preamplifier
2 phono and 2 aux inputs; 2 phono EQ outputs; buffered and unbuffered outputs. High-output power supply; point-to-point wiring; high-grade volume potentiometer. Brushed aluminum. 15½ x 5½ x 13 in; 27 lb $6,000

ATC-2 Tube Preamplifier
5 line-level inputs; 2 line-level outputs; 2 tape loops. One 12AX7 and two 12AU7 vacuum tubes. FR 5 Hz-100 kHz ±1 dB; THD 0.01%; S/N 90 dBA . . .$5,395
As above with high-quality potentiometer . . .$6,395

ATC-1 Tube Preamplifier
Phono and line-level inputs. Two 12AX7 vacuum tubes; Class B power supply; no printed circuit boards; OFC wiring; extruded-aluminum front-panel. THD 0.05% phono, 0.02% line; S/N 85 dBA phono, 98 dBA line $3,695

ATL-10A Preamplifier
3 inputs and one output. 6N copper wiring; point-to-point wiring. Remote control. Brushed aluminum. 12½ x 4 x 9¾ in $1,800
As above with high-quality potentiometer . . .$2,800

AMC

CVT 1030a Tube Preamplifier
4 RCA line-level inputs; 1 XLR line-level input; 2 line-level outputs; tape output; headphone jack. Class A design; regulated power supplies; fiberglass circuit boards. Tape monitor switch; power switch and indicator; phones/normal/direct switch. FR 20 Hz-20 kHz ±0.5 dB; THD 0.03%; S/N 79 dB phono, 96 dB line; max output 22 V rms. Black. 17 x 5 x 13 in; 19 lb $850
CVT 1030. As above with 5 RCA line-level inputs; no XLR line-level input. 17 x 5 x 13 in; 19 lb . .$700
MD1403. XLR output $275
Tube sockets for CVT 1030a $100

AV81HT A/V Preamplifier
Dolby Pro Logic and ambience modes. 4 audio inputs; 4 A/V composite inputs; calibration mic input; 2 buffered audio-tape outputs; 2 buffered A/V record outputs; buffered video output; front, center, and surround left and right outputs; subwoofer output; headphone jack. Class AB; subwoofer crossover 80 Hz low-pass and high-pass main left and right outputs; upgradable to THX. Center-channel mode switch; surround delay 15, 20, 25, 30 ms; built-in Dolby calibration system with mic; front-panel display; 6 manual output controls for front, surround, center, and subwoofer; tone-control bypass switch; record output selector; subwoofer high-pass output switch; shorting plugs; power switch; remote control. FR 20 Hz-20 kHz ±0.5 dB; THD 0.01%; S/N 95 dB; max output 12 V rms. Black. 17 x 3½ x 13 in; 15 lb $800
AV81HTC.] As above with front-panel input and surround mode selectors $850
AV81HT THX. THX-certified version of AV81HT with DSP for Dolby Pro Logic and THX modes; no ambience modes $1,200

AV81C A/V Preamplifier
4 A/V inputs; 2 A/V record-outputs; video output; buffered output; processor loop; headphone output jack. Class AB output. Separate record-output selector; input LED indicator; front-panel input selector; bass and treble; remote control. FR 20 Hz-20 kHz ±0.5 dB; THD 0.01%; S/N 95 dB; max output 12 V rms. Black. 17 x 3½ x 13 in; 15 lb $569

AMERICAN HYBRID TECHNOLOGY

AHT/L Nonsignature Preamplifier
4 audio inputs; 1 output. Class A design. FR 1 Hz-1000 kHz ±0.1 dB; THD 0.00015%; S/N 100 dB; max output 20 V rms. Polished-brass faceplate. 5-yr warranty. 19 x 3½ x 10 in $8,000

AHT/P Nonsignature Phono Preamplifier
Teflon PC board; solid-state circuitry; dual-mono external supply. Includes MC phono stage. FR 1 Hz-60 kHz ±0.05 dB; THD 0.0015%; S/N 98 dB; max output 20 V rms $5,750

AHT/P Preamplifier
Solid-state circuitry; external power supply; DC coupled. FR 1 Hz-50 kHz ±0.1 dB; THD 0.0015%; S/N 98 dB; max output 15 V rms $2,700
AHT/P DM. As above with dual-mono power supply $3,500
AHT/H. Line-level version of AHT/P $3,500

ANTHEM

PRE-2L Tube Preamplifier
CD, tuner, tape monitor, SSP input, and 2 aux inputs; tape output; 2 preamp outputs; front-panel headphone jack. Vacuum-tube line stage; built-in headphone amp; selectable 8-, 16-, or 24-dB gain stage. Remote volume control, muting, and SSP functions. FR 2 Hz-130 kHz ±0.5 dB; THD 0.15%; S/N 90 dB; max output 30 V rms. Black or silver. 19 x 5¼ x 11 in; 18 lb $1,299

PRE 1L Tube Preamplifier
4 line-level inputs; 2 line-level outputs; tape-monitor loop; headphone jack. Vacuum-tube signal path; switchable 4-, 8-, or 16-dB gain; built-in headphone amp. Volume, balance, and input selector controls; tape monitor switch; mute and mono/stereo switch. FR 2 Hz-130 kHz ±0.5 dB; THD 0.1%; S/N 90 dBA; max output 30 V rms. Silver or black. Limited 5-yr, tubes 1-yr warranty. 19 x 5¼ x 11 in; 20 lb $999

PRE 1P Tube Preamplifier
Phono input; line-level output. Vacuum-tube phono and gain stages; 48-dB gain. Power and mute switch. FR 20 Hz-20 kHz ±0.5 dB; THD 0.15%; S/N 80 dBA; max output 1 V rms. Silver or black. 5-yr parts-and-labor warranty. 19 x 5¼ x 11 in; 18 lb $899

ARAGON

Model 28K Preamplifier
6 inputs; 2 line-level outputs; 2 tape outputs; gold-plated connectors. Hand-crafted fully-discrete Class A design; toroidal power supply; dual-mono DC supply rails; direct-coupled output; single switch contact in signal path; gain stage with no output capacitors; discrete-transistor regulation for each channel; military-spec glass-epoxy circuit board; OFC for signal-path and ground plane; Teflon-dielectric wire between connectors and circuit board; matched signal path transistors; epoxy-dipped military-spec RN60D resistors; silver switch contacts. Remote volume and balance controls; separate listen and record switches. FR 20 Hz-20 kHz ±0.1 dB; THD 0.04%; S/N 100 dBA; max output 8 V. 19 x 3½ x 11 in; 20 lb $1,199

Model 47K Phono Preamplifier
External dual-mono DC power supply; fully discrete Class A design; epoxy-sealed resistors; matched transistors; dual-sided glass-epoxy circuit board; OFC board tracings. No front-panel switches or gain controls; no power switch; internal gain load-impedance adjustments via gold-to-gold shorting bars. FR 20 Hz-20 kHz ±0.3 dB; S/N 86 dBA MM; max output 10 V. 19 x 2½ x 10½ in; 18 lb $595

ARCAM

Alpha 9 Preamplifier
Line-level inputs; tape loops; switchable line-level zone outputs; preamp outputs. Separate listen and record selectors. Charcoal finish. 17 x 12 x 4 in; 10 lb $799

ART AUDIO

VP-1 Tube Preamplifier
Phono input; 2 tape loops; 2 audio outputs. Chrome and gold finish $2,195
As above with chrome or black finish $1,795

VPL Tube Preamplifier
2 tape loops; 2 audio outputs. FR 20 Hz-20 kHz $1,795
As above with chrome or black finish $1,495

AUDIO ADVANCEMENTS

PreMax Tube Preamplifier
4 inputs; 2 outputs. MM or MC input optional. THD 0.01%; S/N 90 dB line. 17½ x 4¼ x 13¼ in; 27 lb $3,250
As above, MC phono input. S/N 69 dB MC . . .$5,250
As above, MM phono input. S/N 75 dB $4,250

AUDIO BY VAN ALSTINE

FET-Valve EC Tube Preamplifier
Phono inputs; 7 line-level inputs; 2 tape loops; signal-processor loop; head-phone jack. Hybrid vacuum-tube/MOSFET design; voltage- and current-overload protection; toroidal transformer; regulated power supplies. Bass, treble, and balance controls. Black anodized faceplate. 17 x 3½ x 13 in $1,279

Super Pas 4i SL Tube Preamplifier
Phono inputs; 5 line-level inputs; 2 tape loops; headphone jack. Straight-line vacuum-tube voltage-gain circuits; solid-state current drivers; toroidal transformer; regulated power supplies. Balance control. Black anodized faceplate. 12 x 3½ x 9 in $709
Kit version of above $569

Omega III SL Preamplifier
6 line-level inputs; 2 tape loops; headphone jack. Regulated power supplies. Balance control. Black anodized faceplate. 12 x 3½ x 9 in $449
As above, 1 phono and 5 line-level inputs . . .$539
Kit version with 6 line-level inputs $349

AUDIO ELECTRONICS

AE-1 Preamplifier
Gold-plated Teflon inserts. 6SN7 line driver; Dual-Mono design; Class A Triode circuits; one chassis.

We've got rhythm. We've got music.

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Audio Adventure Magazine

Thanks Gershwin.

George and Ira Gershwin were a prolific team who wrote some of America's best loved music. *Lady be Good, Rhapsody in Blue*, and *I've Got Rhythm* among countless others. Inspired, provocative music that became repertoire standards due to their beautiful melodies and unforgettable lyrics.

At Rotel, we also know about establishing standards. For nearly forty years our engineers have worked to develop hi-fi components to bring your favorite artists to life. We do it by manufacturing our own custom transformers and shopping the world for premium components from world-class manufacturers. We assemble them in our own ISO9002 certified factory, and finally, we listen. If it moves our feet, we know it will move yours.

Rotel's RTC940 Stereo FM Tuner/Preamp with Remote and RB981 130watt/Channel Power Amplifier

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AUDIO ADVENTURE'S MANUFACTURER OF THE YEAR

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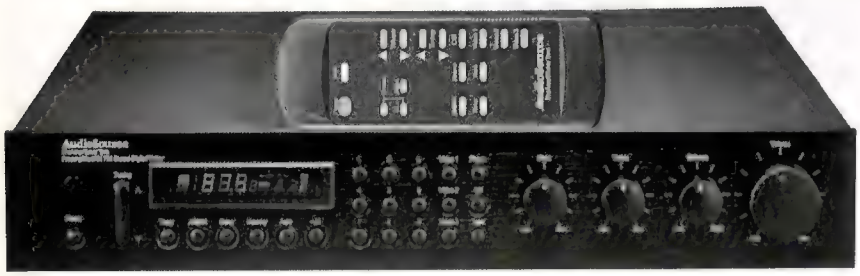
Preamplifiers



AudioSource PreAmp/Tuner Two preamplifier

S/N 88 dB. 14 x 6 x 10 in; 15 lb $849
Kit version of above $599

AE-2 Phono Preamplifier
Line-level inputs; phono input. Single-ended MOSFET line stage with phono section. FR 10 Hz-85 kHz ±0.75 dB; S/N 88 dB. 15 x 3¼ x 12 in; 9 lb ...$499

PH-1 Phono Preamplifier
MM phono input. Direct-coupled circuitry; single-ended Class A design. S/N 76 dB. 7 x 5 x 10 in; 10 lb $499

AUDIOLAB

Model 8000Q Preamplifier
6 line-level inputs and 3 tape loops; 2 low-source-imp preamp outputs; headphone jack; remote control. DC-coupled Class A design; microprocessor control; switchable gain; auto muting. FR 10 Hz-20 kHz ±0.2 dB; THD 0.007%; S/N 97 dB. 17½ x 3 x 13 in; 15 lb $1,395

Model 8000PPA Phono Preamplifier
MM/MC input. Dual-mono design with independent left and right grounds; DC coupled; microprocessor-controlled DC-servo feedback system; dynamic infrasonic filter; auto muting. FR 10 Hz-20 kHz ±0.2 dB. 17½ x 3 x 13 in; 13 lb $1,295

Model 8000C MKII Preamplifier
6 line-level inputs and 3 tape loops; MM and MC phono inputs; 2-low source-imp preamp outputs; headphone jack. Class A operation. Separate listen and record selectors; defeatable phase-compensated tone controls; mute switch. FR 20 Hz-20 kHz ±0.5 dB; THD 0.01%; S/N 81 dB MM, 77 dB MC, 92 dB line. 17½ x 3 x 13 in; 13 lb $795

AUDIO NOTE

M3-Phono Tube Preamplifier
2 RCA outputs. Tube-rectified choke-filtered power supply; silver wiring. 66 lb $9,000

M3-Line Tube Preamplifier
Aux, tuner, and CD inputs; 2 RCA outputs. Tube-rectified choke-filtered power supply; silver wiring. 59 lb $5,995

M2-Phono Tube Preamplifier
Aux, CD, tuner, and phono inputs; 2 outputs. 12AX7, 6922, and 6SN7 triode tubes; tube-rectified choke-filtered power supply; no negative feedback; silver wiring. Feedback switch. 22 lb $2,995

M2-Line Tube Preamplifier
Tuner, aux, and CD outputs; 2 outputs. 6SN7 triode; tube-rectified choke-filtered power supply; no negative feedback; silver wiring. Feedback switch. 20 lb $1,995

M1-Phono Tube Preamplifier
Aux, tuner, CD, and phono inputs; 2 outputs. 12AX7, 6922, 6SN7 tubes; no negative feedback; passive RIAA EQ. Feedback switch. 20 lb ...$1,295

M1-Line Tube Preamplifier
Aux, tuner, and CD inputs; two outputs. 6SN7 triode tube; no negative feedback; paper-in-oil capacitors. Feedback switch. 18 lb $995

AUDIOPRISM

Avanti Dual Mono Reference Tube Preamplifier
5 inputs; switched tape outputs. Dual-mono Class A design with separate external inductor power supply for each channel. FR 5 Hz-100 kHz +0, –0.3 dB; THD 0.1%; S/N 90 dB. Black-aluminum or silver-anodized faceplate and cover with black-aluminum anodized chassis. Preamp: 17 x 12½ x 4 in. Each power supply: 9¼ x 12½ x 4 in $8,295
As above with champagne-gold faceplate and cover $7,995
Silver coin stepped attenuators with Vishay resistors $2,500

Mantissa Vacuum Tube Preamplifier
5 inputs; 2 parallel outputs; switchable tape output; Teflon insulated RCA input/output jacks. Class A topology; OFHC-copper internal wiring; 1%-metal film resistors; isolation mounted, heavy-epoxy circuit board; hand-selected ECC88 input/gain and 5814 driver tubes; external, fully-regulated FET-controlled power supply; regulated filament supply; power-line filtering technology. L/R ladder-type stepped attenuator volume controls. FR 5 Hz-100 kHz ±0.3 dB; THD 0.1%; S/N 90 dB. Aluminum-black anodized chassis with brushed-champagne gold, silver or black anodized finish on faceplate and top cover. Preamp: 4 x 17 x 12½ in. Power supply: 3 x 5 x 10½ in $1,995
Mantissa Silver Signature Vacuum. As above with Kimber solid-silver internal wiring; Kimber RCA connectors; MIT tin foil capacitors; Caddock and Holco precision metal film resistors; copious damping; ¾-in faceplate $3,995
MFM1000 Power Supply. Plug-and-play replacement for Mantissa and Silver Signature preamp standard power supplies. Low-noise dual-choke filter with separate filament transformer and increased capacitance. Increases bass impact and resolution. 9¼ x 12½ x 4 in; 18 lb $1,000
MFM-1000-R Reference Power Supply. As above with reference supplies added inside the Silver Signature and larger connector. Increases bass impact, low-level resolution, and sound staging. 9¼ x 12½ x 4 in; 19 lb $1,500

AUDIO RESEARCH

Reference 1 Tube Preamplifier
8 switchable XLR/RCA inputs; record-output; 2 main switchable XLR/RCA outputs. Eight 6922 tubes. Full-function remote control. 19 x 7 x 15½ in; 30 lb $8,495

LS10 Preamplifier
6 inputs; tape output; 2 main outputs. Programmable full-function remote control. Natural or black-anodized brushed-aluminum front panel. 19 x 5¼ x 15 in; 23 lb $5,495

LS25 Tube Preamplifier
8 inputs; 2 main outputs; tape output. Remote control. Natural, gray, or black-anodized brushed-aluminum front panel. 3-yr warranty. 19 x 5¼ x 11¾ in; 18 lb $4,995

LS15 Tube Preamplifier
2 XLR and 5 RCA inputs including tape monitor; 2 XLR and 5 RCA outputs including record-out. Four 6922 tubes. Full-function remote control. 19 x 5¼ x 10½ in; 12 lb $2,995

PH3SE Phono Tube Preamplifier
RCA inputs and outputs. 6922/E88CC dual triodes with JFET input. Mute switch. Natural, gray, or black-anodized brushed-aluminum front panel. 3-yr warranty. 19 x 5¼ x 10¼ in; 11 lb $2,495

LS9 Preamplifier
2 XLR and 4 RCA inputs; 1 RCA and 2 XLR main outputs. Full-function remote control. FR 20 Hz-30 kHz ±0.5 dB. Natural, gray, or black-anodized brushed-aluminum front panel. 19 x 3½ x 11 in; 11 lb $1,995

LS8 Tube Preamplifier
5 inputs; tape output. Natural, gray, or black-anodized brushed-aluminum front panel. 3-yr warranty. 19 x 5¼ x 10¼ in; 10 lb $1,495

PH3 Tube Phono Preamplifier
MM/MC input; gold-plated RCA inputs and outputs. Hybrid tube/solid-state design with three 6922/E88cc dual triodes; regulated power supply. Mute switch. 9 lb $1,495

AUDIOSOURCE

PreAmp/Tuner Two Preamplifier/Tuner
6 inputs; 2 outputs. Video switching; remote switching; 18 station random preset; full function remote control $499

PRE One Preamplifier
6 inputs; 2 main outputs; MC phono input. Digital input switching; FET inputs; bass-EQ circuitry; infrasonic filter. Bass, midrange, and treble controls; tape-dubbing capability. S/N 85 dB MM, 70 dB MC, 100 dB line. 16½ x 2⅝ x 11⅝ in; 8 lb $230

AUDIO SYNTHESIS

Passion Preamplifier
Line-level inputs; tape loop. FR 1 Hz-200 kHz; THD 0.0002% $1,295
Pro Passion. As above without tape loop ...$995

AUDIRE

Diffet 5 Preamplifier
2 XLR line-level inputs; dual XLR outputs. Dual-mono construction; differential FET input stage; DC coupled; separate regulated power supplies. Separate volume controls. FR 1 Hz-750 kHz; S/N 96 dB. 19 x 3½ x 7½ in $2,500

Nuance Phono Preamplifier
XLR inputs for MC and MM cartridges with XLR output. Separate MM/MC phono inputs; dual-mono construction with separate regulated power supplies. FR MC 1 Hz-1,000 kHz, 10 Hz-70 kHz MM RIAA; S/N MC 98 dB, MM 96 dB. 19 x 3½ x 7½ in $2,500

Andante Preamplifier
5 line-level input; separate MM/MC phono inputs; 2 tape loops; 2 line-level outputs; 4 switched and 4 unswitched AC outlets. Dual-mono design with separate circuit boards, controls, and regulated power supplies for each channel; Class A circuitry in push-pull topology; direct coupling for all stages; dual matched FETs for input stages. Bass, treble, volume, and source-select controls for each channel; tone defeat/bypass $1,903

Diffet 3 Preamplifier
5 line-level inputs; MC phono input; 2 tape loops; 2 line-level outputs. Differential FETs in input stages; DC coupling; no capacitors in signal path; regulated power supply. FR 5 Hz-100 kHz ±0.25 dB; S/N 86 dB phono, 94 dB line. 19 x 2¼ x 7½ in ...$1,147
As above, no MC stage. 19 x 2¼ x 7½ in ...$1,000

Preamplifiers

Legato Preamplifier
5 line-level inputs; MM phono input; 2 tape loops; 2 line-level outputs. Polypropylene and polystyrene capacitors; metal-film resistors; regulated power supply; DC-coupled stages; no capacitors in signal path; no internal wiring. FR 5 Hz-100 kHz ±0.25 dB line; S/N 75 dBA phono, 90 dB line. 19 x 2¼ x 7½ in $587

B&K COMPONENTS

Reference 20 Preamplifier/Processor/Tuner
Dolby Digital, DTS, Dolby Pro Logic, and ambience modes. 7 line-level inputs; 6 coaxial digital and 5 optical inputs; 3 line-level outputs; 8 surround outputs; system remote-control outputs. Dual Motorola 56009 24-bit DSP processors. On-screen display; 20-memory recall presets with user programmable names; programmable learning remote control. FR 5 Hz-150 kHz ±3 dB; THD 0.02%; S/N 89 dB; max output 9 V rms. FM: 50-dB quieting sens 35 dBf; cap ratio 2 dB; alt-ch sel 65 dB; S/N 70 dB; THD 0.25%. 5-yr warranty. 17 x 4 x 12 in; 20 lb $2,500
Reference 10. As above, DTS upgradable ... $2,000
DTS upgrade $500

BEL CANTO DESIGN

SEP1 Tube Preamplifier
2 RCA and 2 XLR inputs; RCA pass-through input; tape loop; RCA output; XLR output. Class A; single-ended triode; no negative feedback. Remote volume, balance, input selection, mute, and standby controls. Internal digital-to-analog converter and phono stage optional. FR 2 Hz-200 kHz ±3 dB; THD 0.05%; S/N 90 dB; max output 15 V rms. Black anodized or silver. 3-yr warranty. 17½ x 3¾ x 14 in; 19 lb $3,500

SEP2 Tube Preamplifier
4 RCA inputs; tape loop; 2 RCA outputs. Class A; single-ended triode; no negative feedback. Remote volume, balance, input selection, standby, and mute controls. Internal digital-to-analog converter and phono stage optional. FR 2 Hz-200 kHz ±3 dB; THD 0.05%; S/N 90 dB; max output 15 V rms. Black anodized or silver. 3-yr warranty. 17½ x 3¾ x 14 in; 18 lb $2,250
Solid P1. As above without RCA outputs. Max output 10 V rms. Black or silver. 17½ x 3 x 12 in; 15 lb $1,750

Tosca Preamplifier
XLR inputs and outputs. FR 1 Hz-100 kHz +0, –0.5 dB; THD 0.01% $1,590

Fidelio Preamplifier
XLR inputs and outputs. FR 1 Hz-100 kHz +0, –0.5 dB; THD 0.01% $1,290

BENZ MICRO

Lukaschek PP-1 Phono Preamplifier
2 MC RCA inputs; 2 line-level RCA outputs; ground terminal. 2 transistors in each amplifier stage; double-sided glass-epoxy circuit board; matched bipolar transistors; 1% metal-film resistors; tantalum and 1%-polystyrene capacitors; 10-Hz infrasonic filter between input stage and RIAA EQ. Turn-on mute; LED indicator. S/N 82 dBA $1,350

BLUE CIRCLE

BC3 Despina Tube Preamplifier
6 inputs; 3 outputs. Vacuum-tube design. Includes BCG3 outboard power supply. Various solid-wood knobs optional. FR 10 Hz-25 kHz +0 dB, –0.2 dB. Stainless-steel preamp; powder-coat black-finish power supply. 3-yr parts-and-labor warranty. Preamp: 17½ x 5⅛ x 14⅝ in; 34 lb. Power supply: 5¼ x 3¼ x 8¼ in; 3 lb $3,300
BC3 Galatea. Upgrade for BC3 Despina. Stainless-steel finish for preamp and power supply. Preamp: 17½ x 5⅜ x 14⅝ in; 34 lb. Power supply: 6 x 5⅜ x 14⅝ in; 16 lb $4,650
BC3000. As above, 38 lb $6,250

BOULDER

Model 2010 Preamplifier
Six XLR inputs (adapters convert to RCA inputs); 2 XLR outputs; 2 XLR tape outputs; optical connections between digital and audio sections. Four chassis: left audio, right audio, digital control, and power supply; 18 discrete gain stages. 100-dB attenuator in 0.1-dB steps; large LED readout; remote control $34,000

L5AE Preamplifier
Two XLR and 6 RCA inputs; XLR and RCA outputs. Hand-built gain stages. FR 20 Hz-20 kHz ±0.05 dB; THD 0.005% at 20 kHz. 17 x 43⅛ x 15¾ in; 12 lb $3,995

L3AE Preamplifier
XLR and RCA outputs. Hand-built gain stages; MC phono stage. FR 20 Hz-20 kHz ±0.05 dB; THD 0.005% at 20 kHz $3,775

BRYSTON

The following carry a 20-year warranty.

BP-25MC Preamplifier
2 XLR inputs; 5 RCA inputs; 2 RCA outputs; XLR tape output and processor loops; MC phono input. Remote control with phase, volume, mute controls. FR 20 Hz-20 kHz; THD 0.0025%. 19 x 1¾ x 11 in $2,995
BP-25P. As above, MM phono stage only ... $2,395
BP-25. As BP-25MC, no phono stage $1,995
BP-20. As BP-25, without remote phase, volume, or mute controls $1,495
BP-1. MM phono stage for BP-20. XLR and RCA outputs $750

BP-5 Preamplifier
Phono input; 3 line-level inputs; XLR output; tape and processor loops. 2-stage phono section; no internal wiring with components plugging directly into boards; volume control laser-trimmed to 0.25-dB accuracy. FR 22 Hz-20 kHz; THD 0.005%; S/N 80 dBA phono, 95 dBA line. 19 x 1¾ x 8 in $1,065
BP-4. As above without phono stage $965

CARVER

CT-25.1 A/V Preamplifier/Tuner
Dolby Pro Logic, Hall, and Stadium modes. 3 audio inputs; 2 A/V inputs; 5 RCA inputs for external digital processor; composite-video output. Surround field expansion. Remote control; 5 RCA inputs to connect an external Dolby Digital processor with level controls for each channel. FR 20 Hz-20 kHz ±0.5 dB. FM: S/N 80/75 dB; THD 0.40%. 19 x 4⅝ x 13½ in; 12 lb $600

CT-24 Preamplifier/Tuner
7 audio inputs; 3 composite-video inputs; coaxial CATV FM input. 30 AM/FM presets; remote control. FR 20 Hz-20 kHz ±0.5 dB; S/N 78 dBA phono. FM: 50-dB quieting sens 39.2 dBf stereo; S/N 68 dB stereo. 19 x 4½ x 15 in; 12 lb $449

CARY AUDIO DESIGN

SLP-98P Tube Preamplifier
MM phono input; gold-plated inputs and outputs with Teflon inserts. Pure Class A triode circuitry; outboard power supply; hand-wired with EE Teflon silver wire; two 6SN7 buffer cathode follower tubes; two 6SN7 line stage tubes; two 12AU7 phono section output buffer tubes; two 12AX7 phono section tubes. S/N 88 dB. 12½ x 5 x 12 in; 22 lb $2,995
SLP-98L. As above without phono input ... $2,595
24K gold-plated faceplate and knobs $599
Remote volume control $499

PH-301 Tube Phono Preamplifier
MM/MC phono input. Two 12AU7 tubes for the MC head amp; two 12AX7 tubes for the RIAA EQ curve and gain stage; 12AU7 tube for the low impedance output buffer; EI-laminate transformer enclosed in outboard power supply; 1% metal-film resistors direct-coupled single-ended Class A circuitry; chrome-plated stainless-steel chassis. S/N 76 dB. Black-anodized faceplate. 7½ x 3 x 13 in; 16 lb $1,795
PH-301MM. MM version of PH-301 ..... $1,195

SLP-74P Tube Preamplifier
4 line-level inputs; MM phono input; 2 outputs; tape loop. Single-ended pure Class A circuitry; outboard power supply; double-sided plated through printed circuit board; polypropylene capacitors; 1% metal-film resistors; two 12AU7 input and gain tubes; two 12AT7 output-buffer tubes; two 12AX7 tubes; epoxy-coated aluminum chassis. FR 9 Hz-260 kHz ±0.5 dB. Black-anodized faceplate. 17 x 3 x 10 in; 15 lb $1,795
Remote volume control $499

SLP-50 Tube Preamplifier
3 line-level inputs. Anode current source Class A circuitry; two 12AU7 line drivers; EI-laminated power transformer; point-to-point wiring; chrome-plated chassis $1,295
Remote volume control $499

CELLO

Encore Line Preamplifier
1 XLR and 4 RCA inputs; 1 XLR and 2 RCA outputs; 2 RCA record outputs. External power supply; 2 power-supply regulators. Tape-monitor, L/R-gain, and output-level controls. FR 20 Hz-20 kHz ±0.25 dB; THD 0.01%. Preamp: 19 x 4 x 14 in; 14 lb. Power supply: 8⅝ x 3⅝ x 13 in; 9 lb ... $10,000
MC phono module $4,000

Palette Preamplifier
5 line-level inputs; 2 tape outputs; 1 XLR and 2 RCA outputs. 6 tone controls. THD 0.005%; S/N 80 dB. Preamp: 19 x 7⅜ x 13 in; 21 lb. Power supply: 6 x 3½ x 12 in; 8 lb $8,500
Phono module for above $4,000

Audio Suite
Audio Suite is a modular system built around an open-architecture mainframe that accepts up to 10 slide-in vertical modules.

P101. MC phono input $4,500
P301. Premium output $4,500
Master Power Supply. $3,500
P100HG. High-gain MM phono input $3,400
P100. MM phono input $3,200
Mainframe Chassis. 19 x 9 x 13 in $3,000
P201. Premium output $3,000
P200. Input $2,500
B301. Basic output $2,300
B102. Basic phono output $1,900
B200. Basic RCA line-level input $1,500

CHORD

The following have a black and silver finish and carry a 5-year warranty.

CPA 4000 Preamplifier
2 RCA tape inputs; 2 XLR outputs; RCA output. Volume and balance manually or remote controlled; LED indicator; display volume control; digital indicator. FR 2.5 Hz-200 kHz ±3 dB; S/N 93 dB; max output 12 V rms balanced. 16½ x 5 x 14 in; 31 lb $10,000

CPA 3200 Preamplifier
XLR/RCA inputs; 2 XLR outputs; RCA output; 2 RCA tape outputs. Visual display system. FR 2.5 Hz-200 kHz ±3 dB; S/N 93 dB; max output 12 V rms balanced. 16½ x 5 x 14 in $5,750

CPA 2800 Preamplifier
XLR inputs; 2 RCA outputs; 4 phono inputs. Volume and balance adjustable via remote control with digital display. FR 2.5 Hz-200 kHz ±3 dB; S/N 93 dB; max output 12 V rms balanced. 12 x 5 x 12½ in; 15 lb $5,250

Preamplifiers

CPA 2200 Preamplifier
1 video, 1 tuner, 2 tape, and 2 CD inputs; 2 RCA tape outputs; 1 RCA main output; 2 XLR outputs. Volume and balance adjustable manually or via remote control. FR 2.5 Hz-200 kHz ±3 dB; S/N 93 dB; max output 15.6 V rms balanced. 16½ x 3½ x 14 in $3,900

CPA 1800 Preamplifier
4 inputs; 2 record inputs; 2 record outputs; XLR and RCA outputs. 2 input selector buses. FR 2.5 Hz-200 kHz ±3 dB; S/N 93 dB; max output 15.6 V rms balanced. 12 x 3½ x 14 in $2,900

CINEPRO
DTC-1 Digital Preamplifier/Processor
Dolby Digital, DTS, Dolby Pro Logic, Hall, and HDCD modes. 6 digital inputs (Toslink and coaxial); 2 digital outputs; 6 analog outputs. Auto digital input sense; 20-bit D/A conversion for all channels; high-current Class A output stage. Front-panel motor-driven rotary knobs control with LED pointers control digital functions; full-function infrared remote control. FR 1 Hz-100 kHz; THD 0.005%; S/N 118 dB; max output 8 V rms. Gray-black front panel. 3-yr parts-and-labor warranty. 19 x 6 x 14 in; 24 lb $3,495

LC-1 Preamplifier
7 RCA line-level inputs; 4 RCA line-level outputs; 2 tape outputs; 2 gold-plated XLR outputs. Pure Class A discrete circuitry; laser-trimmed volume potentiometer; sealed silver-plated selector switches. Separate record-out selector switches. FR 2 Hz-400 kHz; THD 0.005%; S/N 110 dB; max output 25 V rms. Black anodized-aluminum front panel. 3-yr warranty. 19 x 3½ x 10 in; 15 lb $795
As above with balanced outputs $920

CITATION
Model 5.0 A/V Dolby Digital Preamplifier/Processor
Dolby Digital, Dolby Pro Logic, 6-Axis Surround, Rock, Classical and Stereo modes. 6 analog stereo inputs; 6 digital inputs; 6 composite-video inputs; 2 S-video inputs; main room audio outputs; record 2nd-zone output. Electronic crossover; dual-drive dipole-surround outputs; pure analog stereo bypass; analog sources processed in analog domain; digital sources processed in digital domain. Two trigger outputs. Includes infrared remote control. THD 0.05%. Anodized-aluminum front panel. 5-yr warranty. 17½ x 4½ x 15½ in; 16 lb $3,350
As above with DTS decoder $3,650

CLASSÉ
SSP-50 Dolby Digital/DTS Preamplifier
Dolby Digital, DTS, Dolby Pro Logic, Stereo HDCD, Stereo Digital, Stereo Analog, Stereo Surround, and Mono modes. 6 A/V inputs/outputs; 5 audio inputs/outputs; discrete 2nd-zone infrared remote-control jacks. 20-bit D/A converters; toroidal transformer; 10 discrete voltage-regulation stages. Multipath A/V switching; independent A/V selection for main, remote, and record; on-screen display; independent analog input and output level adjustments; subwoofer crossover and level controls; remote control $6,500

CP-60 Preamplifier
2 XLR inputs; 4 RCA inputs; tape input; surround input; XLR output; RCA output; tape output; surround output. External power supply; special surround loop circuitry to be used with external surround processor. Full-feature remote control. FR 20 Hz-20 kHz; THD 0.007%; S/N 100 dBr; max output 42 V rms. Black or silver faceplates. 5-yr warranty. 19 x 14¾ x 3¼ in; 30 lb $3,695
CP-50. As above without external power supply. 19 x 14¾ x 3¼ in; 20 lb $2,695
Internal MM/MC phono stage for either above model $500

SSP-25 A/V Preamplifier/Processor
Dolby Digital, DTS, Dolby Pro Logic, and Stereo Surround modes. 1 Toslink and 8 coaxial digital inputs; 1 XLR and 6 RCA analog inputs; 4 composite- and 4 S-video inputs; 6 RCA and 2 XLR main outputs; record output; composite- and S-video outputs; composite- and S-video record outputs; RS-232 control interface. Front-panel setup menu; full-function remote control. RF demodulator optional. 5-yr warranty $3,000

CP-45 Preamplifier
XLR input; 4 RCA inputs; tape loop; XLR output; RCA output. Remote control of volume and muting. FR 20 Hz-20 kHz; THD 0.007%; S/N 100 dB; max output 28 V rms. Black or silver faceplates. 5-yr warranty. 19 x 12¾ x 3 in; 19 lb $1,795
MC/MM internal phono stage for above $200

CP-35 Preamplifier
XLR input/output; 4 RCA inputs; RCA output; tape input/output. Full-function remote control; front-panel display. MM/MC phono board optional. FR 20 Hz-20 kHz –0.1 dB; THD 0.050%; S/N 95 dBr; max output 24 V rms. Black or silver faceplates. 5-yr warranty. 19 x 10¼ x 2½ in; 11 lb $1,095
Phono card $200

CODA
FET-01 Preamplifier
Phono and line-level inputs; XLR and RCA out-

World Class Power Conditioning, Power Distribution and Sequencing Units and edge-of the-art AC Line Balancing Products. Perfect for the finest commercial venues and equally suited for use in today's home audio and theater suites.

CINEPRO
The Experience

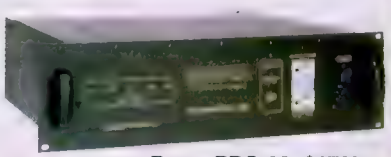
PowerPRO 10 $1095

Balancing Act

The 120 volt AC power coming out of your wall socket and feeding your sensitive equipment is unbalanced. One blade is neutral (ground) and the other blade is 120 volts AC. This unbalanced condition generates audible hum in your sound system due to the electromagnetic radiation.

The PowerPRO 10 and PowerPRO 20 convert this unbalanced AC condition to fully balanced (+60, -60 volts) split phase power. This power is recognized by the NEC (article 530) as "technical power". Hum is virtually eliminated. The residual noise floor vanishes!

Sound becomes noticeably more three dimensional and transparent, due to a noise reduction of up to 15 dB (that's 60 times lower). Video projectors and monitors have more contrast, and deeper, truer color rendition. In additional to supplying balanced power, the PowerPRO units feature full line conditioning and electronic and passive surge protection. The PowerPRO 10 is rated 10 amps and is suitable for most two-channel and small home theater systems. The PowerPRO 20 with a whopping 2400 watt capability is design for large, audiophile quality home theater systems.



PowerPRO 20 $1795

Ever wonder why for no apparent reason, your system sounds better on some days then others?

The line voltage coming out of your wall socket is supposed to be 117 volts. But, variations can occur. Large variation. Since you your equipment was designed to operate at 117 volts, some days your music sounds wonderful and some days it sounds downright awful.

The solution – The Cinepro Power Supply II and III. These units supply all your components with exactly 117 volts – all the time, regardless of what's coming out of your wall. The result – optimal performance from your sound system, day in and day out.

Power Supply II $749

Power Supply III $1199

Proudly hand-made in the USA by the Cinepro/Furman Group

puts. All-FET voltage gain; no overall feedback; regulated power supply with EMI and RFI filters and toroidal transformer; double-sided gold-plated circuit boards; anodized chassis. Separate listen and record selectors. 10-yr warranty. 19 x 1¾ x 9¾ in $2,950
FET-02. As above without phono stage $1,950

FET-04R Preamplifier
XLR input; 3 RCA inputs; XLR and RCA outputs; tape loop; processor loop. FET differential voltage gain; single-ended no feedback MOSFET follower; Class A circuitry; precision-ladder attenuator network. Universal remote control. FR 5 Hz-100 kHz ±0.3 dB; THD 0.1%; S/N 100 dB; max output 5 V rms. Anodized brushed aluminum. Limited 10-yr warranty. 19 x 1¾ x 9¾ in; 14 lb $2,750

CONRAD-JOHNSON

Premiere 16/LS Tube Preamplifier
Composite triode circuit with zero feedback. 99-step volume and balance control; full-function remote control. FR 2 Hz-100 kHz +0, –3 dB; THD 0.2%; S/N 96 dB. 3-yr warranty. 19 x 3½ x 15¾ in $7,995

Premier Fourteen Tube Preamplifier
Line-level inputs. All-tube zero-feedback audio circuitry; separate discrete regulated solid-state power supplies for each channel; regulated filament supply; polypropylene and polystyrene capacitors; laser-trimmed metal-foil resistors. Level and balance control in 1-dB steps; remote control. FR 2 Hz-100 kHz; THD 1% at 1-V output. 19 x 15¼ x 3¾ in $4,395

PFR Preamplifier
7 line-level inputs including two tape/processor loops. Zero-feedback audio circuitry with FET; discrete regulated power supply; polypropylene and polystyrene capacitors; metal-film resistors. Remote control. FR 2 Hz-100 kHz; THD 0.1%. 19 x 14⅜ x 3⅜ in; 15 lb $2,795

PV12A Tube Preamplifier
Phono and line-level inputs; 2 tape loops. Cathode-follower outputs and solid-state voltage regulator designed for minimal AC imp; regulated-filament power supplies; audio circuits with 1% tolerance; military-spec deposited tin-oxide resistors; polystyrene capacitors. Auto turn-on/off mute. FR 2 Hz-100 kHz; THD 0.5%. 19 x 14¾ x 3⅜ in; 15 lb $2,595
PV12AL. As above without phono stage ...$1,995

EF1 Phono Preamplifier
Differential input. All-FET zero-feedback audio circuitry with passive RIAA EQ; discrete regulated power supplies; polypropylene and polystyrene capacitors; metal-film resistors. Selectable gain of 40, 46, or 52 dB. 19 x 3⅜ x 14⅜ in; 14 lb ...$1,995

PF2 Preamplifier
Phono and line-level inputs; 2 tape loops. All-FET design with zero-feedback distortion-canceling circuitry; polypropylene and polystyrene capacitors; metal-film resistors. FR 2 Hz-100 kHz; THD 0.1%. 19 x 3⅜ x 14⅜ in; 15 lb $1,895
PF2L. As above without phono stage $1,495

PV10A Tube Preamplifier
5 line-level inputs; phono input; tape loop. Zero-feedback circuitry in phono and line stages; 5 vacuum tubes; discrete regulated power supply with polypropylene and polystyrene capacitors. THD 0.1%. 16 x 3¾ x 11 in $1,495
PV10AL. As above without phono stage ...$1,195

CONTINUUM

Continuum Audio Window Preamplifier
5 XLR inputs; separate tape-monitor and processor loops. Regulated power supply with 14,000-µF capacitance and AC, EMI, and RF line filtering; FET input with bipolar current gain; double-sided glass-epoxy circuit boards. Dual-function optical level control; remote control. FR 5 Hz-200 kHz –3 dB; THD 0.01%; S/N 100 dBA. 5-yr limited warranty. 17 x 2½ x 10 in $1,595

CREEK

P52R Preamplifier
6 inputs; 2 outputs. Remote controlled with motor-driven switching. Black. 16½ x 2 x 11 in; 10 lb$895
MM special-edition board $95
MC board $95
MM board $60

OBH-12 Passive Remote Preamplifier
3 inputs (1 tape loop). Remote control $325

OBH-9 Phono Preamplifier
MC input. Single-ended Class A gain stage; all passive EQ; zero feedback; power supply in separate molded plug; upgradable power supply. FR 20 Hz-20 kHz ±0.25 dB; THD 0.01%; S/N 79 dB. 4 x 4 x 2½ in $249
OBH-8. As above, MM input. S/N 85 dB $199
OBH-8SE. As above with upgraded parts, and gold connectors; OBH-2 regulated power supply ...$325

DB SYSTEMS

DB-1B Preamplifier
4 line-level inputs; phono input; 2 buffered tape outputs; 2 main outputs; gold-plated connectors. Cascode amplifiers; diode input protection; vol-

Professional Surge Protection, AC Conditioning, Lighting and Control for Your Entire System

PowerLight 1800 $349

The new PowerLight 1800 is the perfect compliment State-of-the-Art power control with advanced line conditioning, the PowerLight 1800 also provides comprehensive passive and electronic surge protection - 720 joules of surge protection, the highest in the industry - protecting your components from damage caused by electrical spikes, surges – even lightening. Additional TV cable connectors provide filtering and spike protection for your video gear.
Here's how the PowerLight 1800 powers and protects your system:

Four of the PowerLight 1800's AC outlets are unswitched, providing clean, pure power at all times when the incoming voltage is within proper operating range. The other four outlets are switched, so that they can be turned on by the PowerLight 1800 or with your audio receivers' wireless remote control. Two of the PowerLight 1800's switched outlets are delayed, so annoying "pops" — which are potentially destructive — are eliminated by turning on sensitive components before the amplifiers are switched on. The sequence is reversed when the PowerLight 1800 is turned off. Also switched are two special digital isolated outlets for your DVD or CD player further reduce digital noise. The result – cleaner, smoother more realistic sound.

See the Light!

With the PowerLight 1800, you can operate your system even in a dark room, change DVDs, adjust controls – whatever. The light tubes turn on when you pull them out, and swivel to illuminate your component's faceplates. A dimmer control lets you adjust the brightness, and the lights automatically turn off when the tubes are pushed back. Perfect for Home Theater Systems.
The PowerLight 1800 is a necessary component for any stereo or home theater system - affording surge protection, convenience, and most of all, a noticeable improvement in sound and video quality. Try one today!

Visit your local dealer to personally appreciate THE CINEPRO EXPERIENCE.
If no dealer is in your area, we'd be happy to FedEx a product to your door for a 30-day no-risk audition.
Order today, you are moments away from the ultimate music and cinematic experience.

To order 800.395.1222
For more information 415.564.6300

CINEPRO *The Experience...Power, Performance, Value*

ume control with ±1-dB tracking over 70-dB range. Switchable high-pass filter at 5 kHz or 10 kHz; balance- and tape-monitor controls. Includes DB-2A power supply. FR 20 Hz-20 kHz ±0.04 dB phono, 10 Hz-20 kHz ±0.25 dB line; THD 0.0008% at 1 kHz. Solid-oak cabinet. 5-yr warranty $850
DB-1A. As above without gold-plated connectors, oak cabinet, or ±1-dB volume tracking $615

DB-1B-HL Preamplifier
5 line-level inputs; gold-plated connectors. Loudness switch. Includes DB-2A power supply. FR 10 Hz-50 kHz ±0.1 dB. Oak cabinet $710
DB-1A-HL. As above with gold-plated connectors, loudness switch, and oak cabinet optional ..$475

DB-4B Phono Preamplifier
MC input; gold-plated connectors. Powered via DB system preamp, crossover, EQ, or optional DB-2A power supply. Cascode amplifiers; diode input protection. FR 10 Hz-100 kHz ±0.1 dB; THD 0.0008% at 1 kHz. 5-yr warranty. 6¼ x 4½ x 2¼ in $235
As above with DB-2A power supply $360

DB-8 Phono Preamplifier
MM phono input; gold-plated connectors. Separate wall-mount DC supply. FR 20 Hz-20 kHz ±0.04 dB; THD 0.001% at 1 kHz. 6¼ x 4½ x 2¼ in $150
DB-8-78. For 78s & LPs $225
DB-8HG. As above with MC phono input. THD 0.002% from 20 Hz-20 kHz $175
DB-12. Infrasonic filter 18 dB per octave; Noise –123 dB $150
DB-2A. High-voltage power supply $165

DENNESEN
JC80 MkII Mono Preamplifier
MM/MC/line-level input. External power supply; polarity inversion with input-imp adjustment. XLR output optional $6,500
JS90. As above, no phono stage $3,200

DENON
AVP-8000 THX 5.1 Dolby Digital Preamp/Tuner
Dolby Digital, Dolby Pro Logic, THX 5.1-channel and 4-channel Home Cinema, and 8 additional surround modes. 9 analog and 4 digital audio inputs; 6 S-video and 6 composite-video inputs; 4 S-video and 5 composite-video outputs; 6 line-level outputs; 4 audio record outputs; 1 digital audio record output; A/V output for multiroom installations. RDS reception/text display; 32 tuner-presets; icon-based on-screen displays; programmable remote control. FR 10 Hz-100 kHz +0, –3 dB; S/N 105 dB; max output 8 V rms. Black front panel, chassis cover. 17⅛ x 6⅝ x 15⅝ in; 30 lb $3,500

DPA DIGITAL
DSP 200SD Preamplifier
MM or MC phono input. Phono stage. Gain and impedance switches $995

DSP 200S Preamplifier
5 line-level inputs; selectable record tape outputs; 2 line-level inputs. Class A output stage; RF noise filter $895

EDGE
T-3 Tube Preamplifier
Single-ended triode. FR 5 Hz-80 kHz; THD 0.5%; max output 15 V rms. 3-yr warranty $3,050

Si-1 Preamplifier
RCA inputs and outputs. FR 2 Hz-100 kHz; THD 0.005%; max output 15 V rms $2,150

ENLIGHTENED AUDIO DESIGNS
Theatre Master Signature Dolby Digital/DTS Preamplifier/Processor
Dolby Digital, DTS, Dolby Pro Logic, Stereo, and Matrix modes. 4 coaxial, 1 Toslink, and 1 ST glass digital inputs; 6 analog audio inputs; RS-232 control; dual XLR outputs. HDCD decoder; 20-bit D/A and A/D converters. Auto setup. Includes backlit touch-screen LCD universal remote. 17 x 4⅜ x 10⅜ in; 30 lb $5,995
Theater Master Ovation. As above, 3 analog audio inputs; 3 composite-video, and 3 S-video inputs. Upgradable internal components $3,995
Theater Master Encore. As above without HDCD decoder or XLR outputs $2,495

EXPRESSIVE TECHNOLOGIES
Model 1 Tube Preamplifier
MM phono input; CD, tuner, video, and 2 tape inputs; 1 main output; 2 record outputs. Passive RIAA EQ; zero feedback. Volume control with 1-dB steps. FR 20 Hz-20 kHz ±0.1 dB; max output 10 V rms. 19 x 10 x 13 in; 85 lb $9,500

SU-1 Phono Preamplifier
MC input. Step-up transformer. FR 0.7 Hz-150 kHz ±0.1 dB; S/N 100 dB. 19 x 5⅝ x 8¼ in; 35 lb $3,500

GOLDEN THEATER
GTX-1 Preamplifier/Processor
Dolby Digital, DTS, Dolby Pro Logic modes. 8 analog and 5 digital inputs; 2 Toslink inputs; 5 composite- and 5 S-video inputs; 1 tape loop; 2 A/V processor loops; 6-channel output; RS-232 port; gold-plated connectors throughout. LCD display; all functions can be accessed from front panel and remote control; universal remote control. Black brush-aluminum front panel. 12½ x 6½ x 17 in; 25 lb $1,995

GOLDEN TUBE AUDIO
LP-1 Preamplifier
Gold-plated RCA inputs; gold-plated ground post; high-current solid-state pure Class A output. Low-noise solid-state amplification; all polypropylene capacitors; selectable gain. External charger power supply; intelligent battery micro-computer charger controlling charge and discharge cycles; user replaceable Ni-Cd battery. S/N 75 dB, 70 dB. Gold/Black anodize ⅜-inch thick front panel. 3-yr warranty. 8½ x 2⅜ x 10 in; 8 lb $395

HARMAN KARDON
Signature Series 2.0 Dolby Digital Preamplifier/Tuner
Dolby Digital, Dolby Pro Logic, Mono Plus, Stereo, and 2 ambience modes. 6 analog inputs; 4 coaxial and 2 optical digital inputs; 5.1-channel direct-RCA inputs; 6 composite-video and 2 S-video inputs; RS-232 input. RDS tuner. On-screen displays; record-out switch; quick-on function; infrared repeater function; user profiles for each input; remote control. FR 10 Hz-50 kHz +0, –1 dB; THD 0.03%; S/N 85 dB; max output 4 V rms. FM: 50-dB quieting sens 45 dBf; AM rej 50 dB; cap ratio 1.5 dB; alt-ch sel 50 dB; S/N 70 dB; THD 0.5%. Black anodized aluminum. 17⅜ x 4 x 14½ in; 19 lb $2,499

PT 2500 A/V Preamplifier/Tuner
Dolby Pro Logic, Dolby 3 Stereo, Theater, and Hall modes. 5 audio inputs with tape monitor; 4 video inputs with VCR dubbing capability; subwoofer outputs. Analog surround decoding; 30-preset AM/FM tuner. Remote trigger output; system remote control; pure signal bypass control; infrared repeater function. FR 5 Hz-110 kHz +0, –3dB; THD 0.02%; S/N 95 dB. FM: 50-dB quieting sens 45 dBf; AM rej 55 dB; cap ratio 1.5 dB; adj-ch sel 5 dB; alt-ch sel 65 dB; S/N 74 dB; THD 0.5%. Matte black. 17⅜ x 6⅛ x 16½ in; 17 lb $529

HARMONIC PRECISION
HP-1 Preamplifier
5 line-stage inputs; phono input; tape loop; 2 main outputs. Class A operation; low-noise power supply; auto slew-rate-adjustment optimization circuit; ultra linear mode. On/off pushbutton; single dual-gang volume control. FR 4 Hz-100 kHz; THD 0.009%; S/N 90 dB; max output 8 V rms. Black-anodized face, black-wrinkle chassis. 17 x 3½ x 10¼ in; 9 lb $895

JBL
SDP-2 Dolby Digital Preamplifier
Dolby Digital, DTS, Dolby Pro Logic, and 15 ambience modes. 8 analog audio inputs; 4 digital audio inputs; 5 video inputs; 7 main outputs. THX-certified. Bass, treble, and loudness controls; on-screen and front-panel displays; remote control. Includes rack-mount kit and SDP-RFD RF demodulator. STC-1 touch-screen remote control optional. FR 10 Hz-20 kHz; THD 0.01% $6,000
STC-1. Infrared wireless touch-screen remote control for above. Preprogrammed to operate all JBL synthesis THX powered home-theater speaker systems. Universal learning remote with 500 button max, 23 user-defined pages, 100 user-defined macros of up to 24 steps each. Archiving and design software optional $2,500

JEFF ROWLAND DESIGN GROUP
Coherence Series II Preamplifier
7 XLR inputs; 2 XLR tape/record outputs; 2 XLR outputs. Separate DC power supply; solid-aluminum chassis; microprocessor control. Selectable gain and input impedance for each source; memory for all operation modes; numerical display for volume level; remote control. 83 lb $14,500
Synergy Series II. As above, 5 XLR inputs; XLR main and tape/record outputs. Separate power supply $5,500

JOULE ELECTRA
LA-100 Tube Preamplifier
4 inputs including tape; dual outputs; tape loop. All-tube design with separate tube-regulated B+ supplies for each channel; separate regulated DC filament supplies; DC coupling to phono stage; point-to-point wiring in signal board. Separate volume controls outside of signal path; adjustable bias for gain stage; auto and manual mute; LED indicator; remote volume control. Gold and black acrylic. 17 x 12 x 5¼ in; 20 lb $3,495
LAP-100. As above with all tube phono stage and outboard power supply. Selectable MM and MC input; volume remote control $5,495

OPS-1 Phono Preamplifier
Selectable MM/MC inputs. Full Class A all-tube design; 36-dB MC and 62-dB MM gain stages. 17 x 5 x 10 in; 15 lb $1,995
Remote volume control $650

JRM ENGINEERING
JRM Preamplifier
MM and MC phono inputs; 8 line-level inputs. Polypropylene capacitors; gold-plated electromechanical devices; 2-stage RIAA EQ with ±0.1-dB conformity; 18-dB infrasonic filter; 10 W x 2 headphone amp. Separate input selectors for main, record, and out. FR 0 Hz-50 kHz –1 dB; THD 0.001%; S/N 76 dB MC, 87 dB MM; max output 7 V rms. 19 x 2¾ x 8½ in $1,710

KAB ELECTRO ACOUSTICS
Souvenir EQS Phono/Line Preamplifier
Phono and line-level inputs; line-level output. Single-ended Class A polar stable gain stages including line stage. 5 EQ curves; mono blend and line-level controls. FR 20 Hz-20 kHz; THD 0.07%; S/N 79 dBA; max output 5 V rms. Black finish. 12 x 2 x 6 in; 5 lb $600

KENWOOD
KC-Z1 THX Dolby Digital Preamplifier/Tuner
Dolby Digital, Dolby Pro Logic, 5.1 THX Home

Cinema and Dolby 3 Stereo modes. 7 video inputs; line-level outputs for left, right, center and subwoofer; S-Video connectors; 3 switched AC outlets. THX-certified; quartz synthesis tuner; 20-bit D/A converter; THX subwoofer crossover. 18-bit digital delay variable in 1-ms increments; direct access tuning; mono/stereo listening modes; audio muting; auto-function one-touch operation. Includes antenna, system control cable, and batteries $2,800

KINERGETICS

R-2.8 THX Dolby Digital Preamplifier/Processor/Tuner
Dolby Digital, DTS, and Dolby Pro Logic modes. 11 analog audio inputs; 4 coaxial and 2 Toslink digital inputs; 6-channel XLR output; composite-, component-, RGB-, and S-video outputs. THX-certified; auto-sensing Dolby Digital/DTS switching; converts any input video format into any other for output; multiroom capability. Video switching. Black anodized. 3-yr parts-and-labor warranty. 17¼ x 7⅛ x 16¼ in; 40 lb $6,500
2nd-zone remote control for above $60

KSP-3 Digital A/V Preamplifier
7 audio and 6 video inputs; 2 RCA and one Toslink digital inputs. Passive switching; four 20-bit D/A converters. Remote control $2,995
As above, without D/A conversion or digital switching $1,995

KPA-3 Preamplifier
7 line-level inputs; tape and processor loops; XLR and RCA outputs. Class A hybrid circuitry; JFET/bipolar design. 17¼ x 2 x 13⅜ in $1,795

KRELL

KPS-25s Preamplifier
XLR input; 4 RCA inputs; 2 XLR outputs; 3 RCA outputs. FR 0.1 Hz-1,000 kHz +0, –3 dB; THD 0.005%; S/N 97 dB; max output 13 V rms. 19 x 15¼ x 15 in; 55 lb $20,000

Audio + Video Standard Preamplifier/Processor
DTS, Dolby Pro Logic, Mono, and Music surround modes. XLR input; 6 RCA inputs; 2 coaxial, 1 AES/EBU, 2 Toslink, 1 RF digital inputs; 4 S-video, 4 composite-video, and 1 BNC-video inputs; 9 XLR and 9 RCA outputs; 3 S-video, 3 composite-video, 1 and BNC-video outputs; coaxial and Toslink digital outputs. Remote control. 19 x 6¾ x 17 in; 24 lb $12,800

KRC-HR Preamplifier
2 XLR and 4 RCA inputs; tape loop; XLR and RCA outputs. Class A design; outboard power supply. Allows setting of one input to unity gain; remote control. 5-yr warranty. 19 x 2½ x 15 in; 21 lb $6,900
Reference phono board $1,250
Standard phono board $650

KRC-3 Preamplifier
1 XLR and 3 RCA inputs; tape loop; XLR and RCA outputs. Class A design; current mode gain. Allows setting of one input to unity gain; remote control. 5-yr warranty. 19 x 3½ x 15½ in; 22 lb $3,200
KAV-250p. As above, two 12-V trigger outputs allow setting of one input to unity gain; remote control. 17 lb $2,000

Reference KPE Phono Preamplifier
MC input. Class A design; outboard power supply. 7¼ x 2½ x 13 in; 6 lb $2,200

Standard KPE Phono Preamplifier
MM/MC inputs. Class A design; outboard power supply. 5-yr warranty. 7¼ x 2½ x 13 in; 6 lb ... $1,600

LEGACY AUDIO

Legacy Preamplifier
5 line-level inputs; XLR input; XLR and RCA outputs. Tape and external-processor switches; LED display; optical attenuator; remote control. FR 1 Hz-100 kHz ±1 dB; THD 0.001%. Satin-black brushed-aluminum faceplate. 17 x 2½ x 12 in $1,595

LEXICON

DC-1/Base Digital Controller A/V Preamplifier
Dolby Pro Logic, Music, Mono, Hall, Club, Panorama, Stereo, and 4 other surround modes. 8 analog audio inputs, 5 video inputs, and 4 digital audio inputs. 20-bit D/A conversion; built-in jitter reduction; adjustable digital crossovers; internally upgradable to Dolby Digital, THX, and DTS. Zone 2 A/V output with separate volume control; back-panel infrared input. 19-in rack mount kit optional. 17⅜ x 3⅝ x 11½ in; 11 lb $1,995
DC-1/THX Digital Controller. As above with digital EQ and THX enhancements; 3 additional Surround modes; internally upgradable to Dolby Digital and DTS. 17⅜ x 3⅝ x 11½ in; 11 lb $2,995
DC-1/DTS Digital Controller. As DC-1/AC-3 with DTS decoding and 5 additional surround modes. 17⅜ x 3⅝ x 11½ in; 11 lb $4,995
DC-1/AC-3 Digital Controller. As DC-1/THX with Dolby Digital decoding; time alignment; dialog enhancement; tilt EQ; A/V synchro delay; subwoofer-peak limiter; 5 additional surround modes; internally upgradable to DTS. 17⅜ x 3⅝ x 11½ in; 11 lb $4,500

LINEAR RESEARCH

Linear Research Tube Preamplifier
6 line-level inputs; 1 tape loop; 2 output jacks. Class A operation. Dual volume controls. FR 10 Hz-10 kHz ±0.5 dB; S/N 82 dB $2,295
As above with phono stage. Choice of MM or MC. FR 10 Hz-32 kHz $2,695

LUXMAN

C-10 Preamplifier
6 line-level inputs/outputs; coaxial outputs. OFC wiring; balanced circuits; antiresonant-chassis design. Output-mode switch; bypass switch; remote amp-power on/off; line-phase sensor; output-phase switch; tape dubbing function; 58-point attenuator. FR 20 Hz-20 kHz +0, –0.1 dB; THD 0.005%; S/N 110 dB. Champagne gold. 3-yr warranty. 19 x 7½ x 17½ in; 5 lb $18,000

C-7 Preamplifier
5 coaxial inputs; 3 XLR inputs; 2 coaxial outputs; 2 XLR outputs. OFC wiring; balanced circuits; antiresonant-chassis design; insulated power supply is isolated from signal path. Output-mode switch; bypass switch; remote amp-power on/off; line-phase sensor; output-phase switch; tape dubbing function; record-off switch. FR 20 Hz-20 kHz +0, –0.1 dB; THD 0.005%; S/N 110 dB. Champagne gold. 3-yr warranty. 19 x 7½ x 17½ in; 4 lb $5,500

E-03 Phono Preamplifier
MM/MC phono input. S/N 103 dB $2,000

C-383 A/V Preamplifier
3 video inputs; switchable MM/MC phono input; remote turn-on/off output for Luxman amplifiers; system-bus connector; gold-plated audio connectors. Separate printed circuit boards for analog, digital, and other sections; separate analog and digital power supplies; motor-driven volume control; buffer amplifiers for each video input; Star circuitry. Record-out selector; bass, treble, and balance controls; loudness compensation; remote control. FR 10 Hz-100 kHz +0.2, –0.8 dB line; THD 0.003%; S/N 91 dBA MM, 76 dBA MC, 106 dBA line. Black or champagne beige $995

MARANTZ

AV-550 Dolby Digital Preamplifier/Tuner
Dolby Digital and Dolby Pro Logic modes. 2 AC-3 digital inputs; AC-3 RF input; composite-video and S-video inputs; aux video input. Nighttime Dolby Digital volume processing mode; Lucasfilm ReEQ circuitry. 30 AM/FM tuner presets; auto preset memory, preset scan, and station naming functions; dual-zone multiroom capability with fixed- or variable-level preamp outputs for second zone; built-in FR demodulator function for laser disc players with AC-3 RF outputs; on-screen display via composite- and S-video connection to monitor; remote control. 3-yr parts-and-labor warranty. 17⅜ x 5 x 12 in; 8 lb $1,000

MARCHAND

PR41-AA Preamplifier
6 inputs; 1 main output. Completely passive design; 46 position stepped attenuator; 23 position stepped balance control. Black cabinet with black knobs. 17 x 2½ x 8 in; 10 lb $995

MARK LEVINSON

Model 32 Reference Preamplifier
2 separate chassis, audio signals in one chassis; AC power, power supply regulation, control, and logic facilities in the other chassis. XLR and RCA phono stages optional $18,000

Model 380 Preamplifier
2 XLR and 4 RCA inputs; XLR and RCA outputs. Fully balanced circuitry from input to output; surround-sound mode. Remote control $3,995
Model 380S. As above, special performance version of No. 380 ..... $6,495

MBL

Model 6010c Preamplifier
5 RCA inputs; 2 XLR and 2 RCA outputs; 2 tape outputs; headphone jack. Modular design accepts slide-in modules listed below. FR 0 Hz-600 kHz; THD 0.0014%. 21 x 9 x 12 in; 77 lb $11,190
Input Group B. Duplicate input set $4,398
Measuring Module. LCD level indicator ... $1,175
Wireless remote control $1,210
MC phone input $1,050
Output Group II. Duplicate set for biamping . $988
MM phone input $789
Remote-control transmitter $495
XLR inputs $384
CD-direct inputs $384

Model 5010c Preamplifier
5 RCA inputs; 2 XLR and 2 RCA outputs; 2 tape outputs; CD-direct input; MM phono input; 2 switchable discrete outputs; headphone jack with volume control. Remote control. MC phono input optional. FR 0 Hz-400 kHz; THD 0.0001%. 18 x 4 x 10 in; 30 lb $4,850
Model 5010cm. Higher-grade version of above with special potentiometer $5,790

Model 4004 Preamplifier
5 inputs, 1 XLR and 1 CD-direct; XLR output; 2 switchable RCA outputs; 2 tape outputs. Remote control. MM/MC phono input optional. FR 0 Hz-300 kHz; THD 0.0008%. 18 x 4 x 10 in; 20 lb ... $2,100

McINTOSH

C100 Preamplifier
3 XLR inputs; 4 XLR outputs; 8 RCA outputs; processor loops for play and record. Built-in MC phono preamp; 2-chassis construction; signal-processor loops for play and record. Input-level trim control; remote control. FR 10 Hz-40 kHz +0 –0.5 dB; THD 0.002%; S/N 100 dB; max output 12 V rms. 3-yr warranty. 17½ x 5⅜ x 17½ in; 70 lb $6,500

MX130 A/V Preamplifier
Dolby Pro Logic. S-video input. Controls 1 remote zone; interface with CR10 or CR12 multiroom controller to add 4 additional zones; A/V switching; 8 AM and 8 FM presets; remote control. THX-M module for THX processing optional. FR 20 Hz-20 kHz ±0.5 dB; THD 0.005%. 17½ x 7⅛ x 17½ in; 30 lb $4,800

Preamplifiers

NAD Model 118 digital preamplifier

C40 Preamplifier
8 audio inputs; MM phono input; dual XLR inputs; XLR outputs. 20-W/ch monitor amp with protection; logic-driven electromagnetic switching. 5-band EQ; listen and record selectors. FR 20 Hz-20 kHz ±0.5 dB; THD 0.002% at 1 kHz; S/N 90 dB phono, 105 dB line. 17½ x 5⅜ x 17½ in; 26 lb $3,500

MILLENNIUM

Model 2.4.6 DTS Preamplifier/Processor
DTS decoding. 6 gold-plated analog RCA inputs and outputs; coaxial and optical digital input and output; coaxial digital throughput. Master volume control; auto level control when connected to any A/V receiver; level-trim controls for center, surround, and subwoofer. S/N 110 dB. 17 x 1½ x 5 in; 7 lb $599

MISTRAL

Linestage Preamplifier
5 inputs; 2 outputs. Dual-mono construction; custom passive components; zero feedback. Separate record-out selector. Brushed aluminum with brass knobs. 17 x 2½ x 13 in $995

Phonostage Phono Preamplifier
Dual-mono construction; custom wiring; Star circuitry. Switchable MC/MM selector. Brushed aluminum. 17 x 2½ x 6½ in $695

MONARCHY AUDIO

Model 10A Preamplifier
6 inputs and 2 outputs. Dual-mono pure class A design; pure silver-wiring; passive and active outputs. Different-color illuminated switch for each input. THD 0.002%; S/N 110 dB; max output 10 V rms. Black. 15 lb $980

MUSE

Model Three Preamplifier
3 RCA and 2 XLR inputs; theater loop; tape loop; XLR and RCA outputs. 255-step attenuator; source calibration; full-function remote control. Silver or black front panel. 3 yr warranty. 17½ x 3½ x 11 in; 15 lb $1,950

MUSEATEX

AVC-1 A/V Preamplifier
4 composite and S-video A/V inputs; 2 audio inputs and 2 A/V tape loops; XLR and RCA outputs. Remote control $1,999

MUSICAL DESIGN

SP-3 Preamplifier
6 selector inputs; 2 main outputs; 1 tape loop. Class A single-ended; power supply. Separate input and tape select; remote control. FR 0.1 Hz-110 kHz; THD 0.02%; S/N 90 dB; max output 30 V rms. Mist-gray winkle paint, stainless steel faceplate. 5-yr warranty. 17 x 3½ x 14 in; 17 lb $1,295

SP-2B Tube Preamplifier
Direct input; 5 line-level inputs; tape output; 2 main outputs. Class-A operation; no feedback in both amplifier or voltage regulator. Stereo/mono/reverse switch; direct input switch; full signal muting. FR 1 Hz-100 kHz; THD 0.02%; S/N 90 dB; max output 60 V rms. 5-yr warranty. 19 x 3¾ x 12 in $995

MUSIC HALL

MMF-1 Phono Preamplifier
RCA phono input and output. External power supply. Black. 11 x 1½ x 1½ in $99

MYRYAD

MP-100 Preamplifier
4 line-level and 2 tape inputs; 2 RCA outputs; XLR output. Input selection by illuminated pushbuttons; volume control; headphone jack; remote control. FR 20 Hz-20 kHz ±0.2 dB; THD 0.1%; S/N 105 dB; max output 20 V rms. Black and silver. 17 x 4 x 12 in; 14 lb $999

NAD

Model 118 Digital Preamplifier
4 analog inputs; 4 direct digital inputs; separate digital outputs for external D/A converter or digital dubbing. 18-bit A/D and 20-bit D/A converters; all signals processed in digital domain for effects including stereo simulation from mono sources; DSP. Auto sampling-rate selection; volume, balance, polarity, mono/stereo, bass, mid and treble controls; digital compression and expansion modes; stereo soundstage width and spread controls. FR 20 Hz-20 kHz +0.3 dB; THD 0.01%; S/N 86 dB. 17⅛ x 3⅜ x 11 in; 8 lb $1,599

Model S100 Preamplifier
6 line-level inputs including 2 tape loops; 2 RCA line-level outputs; XLR line-level output; gold-plated connectors throughout. Pure Class A design; DC coupled; Star circuitry. Remote input-selector and volume controls. FR 20 Hz-20 kHz ±0.1 dB; THD 0.002%; S/N 98 dB; max output 10 V rms. All aluminum chassis with smooth sandblasted finish. 17¾ x 2⅝ x 11¼ in $1,199

Model 116 Preamplifier
6 line-level inputs; 2 tape loops with gold-plated sockets; XLR outputs; 2 RCA line-level outputs. Independent headphone amp; separate power supply for phono stage. Input switching through rear-panel relays with gold-plated contacts; switchable MM/MC phono selector with separate inputs; full-system remote control with high-quality motor-driven volume control and NAD Link; dubbing capability. FR 20 Hz-20 kHz ±0.2 dB; THD 0.01%; S/N 76 dB phono, 98 dB line. 17⅛ x 3⅛ x 12⅝ in; 9 lb $799

Model 917 A/V Preamplifier/Tuner
Dolby Pro Logic, Stadium, Hall, and Club surround modes. 7 line-level inputs including 3 video inputs; 3-position switchable subwoofer output; composite- and S-video inputs and outputs. Controls for treble, bass, bass-EQ, and tone defeat; 3-position subwoofer output switch; 40 AM/FM presets; indicators for signal strength and center tune; on-screen displays; system remote compatible with most NAD tape decks and CD players. FR 20 Hz-20 kHz ±0.3 dB; THD 0.01%; S/N 88 dBA. FM: S/N 75 dB stereo; THD 0.15% stereo. 17½ x 4⅝ x 14 in $699

Model 114 Preamplifier
6 line-level inputs including 2 tape loops; gold-plated CD, phono and headphone jacks; 2 RCA line-level outputs. Independent headphone amp. Switchable MM/MC phono selector. FR 20 Hz-20 kHz ±0.2 dB; THD 0.01%; S/N 76 dB phono, 96 dB line. 17⅛ x 3⅜ x 11 in; 8 lb $399

Model 911 Preamplifier
6 line-level inputs; mic input; mic-channel line-level input; 6 fixed- and 6 variable-level outputs; mic-channel line-level output. Insert-on/off selector for each channel allows insertion of mic into any channel. FR 20 Hz-20 kHz +0, –0.5 dB; THD 0.005%; S/N 100 dB; max output 10 V rms. Gray with black knobs and switches $399

PP-1 Phono Preamplifier
Adds phono input to any line-level preamp or receiver. MM phono stage with RIAA EQ; infrasonic filter; metal chassis. FR 20 Hz-20 kHz ±0.5 dB; THD 0.04%; S/N 78 dB. 5½ x 1½ x 2¾ in; 1 lb $129

NAIM

Power supplies and phono stages are not included, unless otherwise indicated.

NAC-52 Preamplifier
6 line-level inputs. Dual-mono design with separate power supply for each section; motor-driven volume control. LED indicators; remote control. Includes phono stage. 16¾ x 3 x 11¾ in $11,550

NAC-82 Preamplifier
6 line-level inputs. Regulated power supply for control circuits in separate chassis. Mute/monitor switch; listen/record selectors; remote control. Phono stage optional. 17 x 3 x 12 in $4,600

NAC-102 Preamplifier
6 line-level inputs. Mute and monitor switches; remote control. 17 x 3 x 12 in $2,150

NAC-72 Preamplifier
5 line-level inputs. Matched time-aligned filter. Mute monitor switch. 11¾ x 3 x 8 in $1,550

NAC-92R Preamplifier
1 line-level RCA input; 4 line-level DIN inputs. Tape-monitor controls; balance control; remote control. Phono stage optional. 17¼ x 2¼ x 12 in $1,350
NAC-92. As above, no remote control $1,000

Prefix Phono Preamplifier
MC input $750

Accesories
Supercap Power Supply. $4,400
Hi-Cap Power Supply. $1,500
Flatcap Power Supply. $750
Phono Stages. With either MM or MC inputs . .$175

NAKAMICHI

CA-1 Dolby Digital A/V Preamplifier
Dolby Digital and Dolby Pro Logic modes. 3 coaxial and 2 optical digital inputs; composite- and S-video connectors; 6 line-level outputs; remote outputs; multiroom/dual-source output. Multichannel level-matching circuits. On-screen display; center- and rear-channel delay; programmable remote control. Includes 2 remote control units. FR 10 Hz-50 kHz +0, –3 dB; THD 0.01%; S/N 100 dB; max output 8 V rms. Front panel made with brushed aluminum finish. 3-yr warranty. 17 x 4 x 13⅛ in; 15 lb $2,300

ODYSSEY

Tempest Preamplifier
300-VA power supply. 18 x 4 x 12 in $1,195

9B ST

Hearing is Believing... Feel the Emotions

Bryston's 9B ST delivers extraordinary quality to your entire home theatre surround sound experience. Feel the emotions: be shocked, be happy, feel sad, scared out of your wits, surprised, be moved, be excited, feel like you want to cry with joy. The Bryston 9B ST amplifier will awaken all of your emotions in a simple elegant package designed to provide *5 channels of uncompromised sound quality.*

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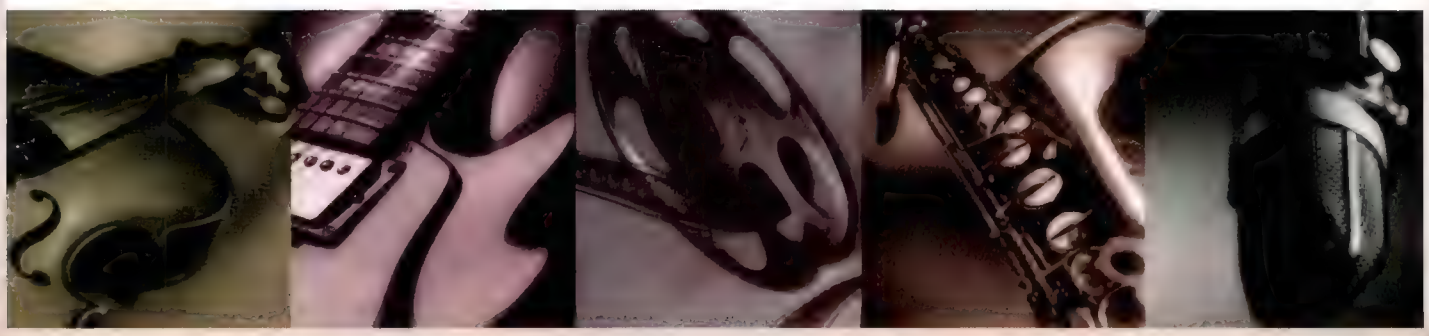

Preamplifiers

ONIX

OA 36 Preamplifier
MM or MC phono stages. Toroidal transformer. All inputs can be controlled with optional remote. 9 x 3 x 14½ in $2,395
OA 36L. Line-level version of above $2,195
Remote control for both above models $180

OA 35 Preamplifier
Aux, tuner, CD, video, and 2 tape inputs; 2 tape outputs. Independent power supply for 2 channels. Manual line-level preamp $1,495

OA 24 Preamplifier
MM/MC, CD, tuner, and 2 tape inputs $795
SOAP 2. Power supply for above $595

ONKYO

Integra P-304 Preamplifier
8 inputs including MM/MC phono. All-discrete signal path; in-phase signal filters; FET phono stage. Two record-out selectors; direct tone controls; side panels. FR 8 Hz-170 kHz; THD 0.0005% line; S/N 81 dB MC, 92 dB MM. 18¼ x 4 x 15⅞ in; 17 lb $559

P-301 A/V Preamplifier
7 audio and 2 video inputs; MM phono input. Source-direct mode; motor-driven volume control. Tone control; video-dubbing capability. FR 15 Hz-30 kHz ±1 dB; THD 0.009% line; S/N 92 dB MM. 18 x 4⅜ x 12¼ in; 9 lb $289

PAC

Pro-Reference III/10K Tube Preamplifier
Phono and line-level inputs. Power supply with digital AC line filtering and separate multiple-regulated voltage references. Manual muting. Includes power supply cables $10,900
Pro-Reference III/7.5K. As above without phono stage $8,000
Pro-Reference III. As Pro-Reference III/7.5K, different power supply $4,500
Pro-Reference IIIP. As Pro-Reference III, phono section only; different power supply; no line-level inputs $3,200
Pro-Reference 2000. Low priced version of Pro-Reference III. No auto muting; different power supply $2,500

PAPWORTH

PPA6 Tube Preamplifier
6 line-level inputs; 2 line-level outputs; gold-plated connectors. Dual-mono design; polished stainless steel chassis; two ECL82 and four ECC81 tubes. FR 6 Hz-40 kHz; THD 0.05%. 10 x 4¾ x 12⅝ in; 18 lb $2,980

PARASOUND

P/SP-1500 THX Preamplifier/Processor
Dolby Pro Logic and THX Home Cinema modes. 4 A/V inputs; composite- and S-video inputs; 4 audio inputs. THX-certification. Relay switching; THX auto level reset; on-screen displays; mode control; connector for P/DD-1500 outboard Dolby Digital adapter. FR 12 Hz-60 kHz; THD 0.06%; S/N 92 dB. 19 x 3½ x 13 in; 18 lb $995

P/HP-850 Preamplifier
4 line-level inputs; phono input; gold-plated connectors; headphone jack. CMOS input switching; direct-coupled and normal inputs; muting relay; 18,800-µF regulated power supply; defeatable tone controls. FR 10 Hz-100 kHz; THD 0.01%; S/N 100 dB. 19 x 3 x 16 in; 13 lb $395

P/PH-100 Phono Preamplifier
Stereo inputs for 1 MM or high output MC phono cartridge; stereo RCA outputs. Analog Devices op-amps and audiophile-grade capacitors. FR 10 Hz-50 kHz; THD 0.009%; S/N 72 dB. 9½ x 1¾ x 7 in; 3 lb $120

PASS LABORATORIES

Aleph P Preamplifier
4 inputs; XLR input and output; tape output; XLR and RCA main outputs. Single-ended Class A gain stage using single MOSFET gain device; input select; individual-channel and master gain controls; switching and volume controls accomplished through relays and precision resistors. Remote control. FR 1 Hz-100 kHz –3 dB; THD 1%; max output 20 V rms. 19 x 11½ x 4½ in; 40 lb $4,000

Aleph Ono Phono Preamplifier
MM/MC inputs; XLR and RCA outputs. Outboard power supply; 40-dB MM gain; 76-dB MC gain. Max output 20 V rms. 19 x 12 x 4½ in; 40 lb $2,500

X2 Preamplifier
1 XLR and 3 RCA inputs; XLR and RCA outputs. Single-ended Class A gain stage using single MOSFET gain device. 19 x 3½ x 11½ in; 35 lb ... $2,500

PERREAUX

SM6 Professional Preamplifier
6 line-level inputs; XLR input; 2 line-level outputs; XLR outputs; 2 tape outputs. Remote control. FR 20 Hz-20 kHz ±0.15 dB; THD 0.003%; S/N 95 dB; max output 1.5 V rms. Black finish $2,995
Classic. As above, chrome $3,395

AVP1 Professional Dolby Digital Preamplifier/ Processor
Dolby Digital and Dolby Pro Logic modes. 5 analog, 3 digital, and 5 video inputs; AC-3 RF input. On-screen display; remote control. FR 20 Hz-20 kHz +0, –3 dB; THD 0.04%; S/N 90 dB; max output 1.5 V rms. Black finish $2,895
Classic. As above, chrome $3,295

PIONEER

Elite C-72 A/V Preamplifier
4 audio inputs; MM/MC phono input; video inputs. Bass and treble controls. FR 20 Hz-20 kHz ±0.2 dB MM, 1 Hz-150 kHz –3 dB line; THD 0.002% at 1 kHz; S/N 93 dB MM, 76 dB MC, 106 dB line. 18⅛ x 6½ x 16½ in $850

POLYFUSION AUDIO

Model 940 Preamplifier
4 line-level inputs; 2 XLR/RCA outputs; 2 tape outputs. Class A MOSFET output stage; DC coupled with servo controls; outboard DC power supply. Electronic input-selector switches; mute switch. FR 5 Hz-100 kHz ±0.1 dB; THD 0.006%; S/N 105 dBA; max output 16 V rms. Anodized in black, silver, and gold. 3-yr warranty. 19 x 3⅛ x 13 in; 7 lb $3,250
Model 230. D/A converter module $1,750
Model 210. Phono module $750

POWER MODULES

BELLES 15A Preamplifier
5 RCA outputs; 2 tape RCA outputs; 2 main RCA outputs. Class A 1-stage differential pair with output buffers; no negative feedback. Mute switch. THD 0.05%; S/N 90 dB; max output 8.9 V rms. Black anodized. 5-yr warranty. 17 x 2½ x 9¾ in; 11 lb $1,195

See the Directory of Manufacturers (page 233) for where to write or call to get product literature or to find a local dealer.

PROCEED

AVP THX Preamplifier/Processor
Dolby Digital, THX, and DTS modes. 8 analog, 7 digital, and 8 video inputs. MPEG-2 compatible; analog and digital surround decoding; 24-bit, 96-kHz processing. Upgradable software. FR 20 Hz-20 kHz +0, –0.2 dB; THD 0.05%; S/N 105 dB. 17⅝ x 5 x 15 in; 34 lb $4,995

PAV A/V Preamplifier
Dolby Pro Logic, THX Home Cinema, and Stereo modes. 4 A/V inputs; 2 XLR and 4 RCA audio inputs; 2 XLR outputs; composite- and S-video connectors; infrared remote jack. THX certified; Independent signals paths for main, remote, and record. Remote amp turn-on; on-screen displays; programmable remote control. Max output 10 V rms $4,195

PRE Preamplifier
2 XLR and 4 RCA inputs; XLR and RCA outputs. Independent buffered-main and record signal paths. Surround-sound processor mode; remote amp turn-on; programmable remote control. Max output 10 V rms $1,995

PROTON

AS-2620 Dolby Digital Preamplifier/Processor
Dolby Digital and Dolby Pro Logic modes. 5 analog A/V inputs; 4 SPDIF digital audio inputs; 1 optical and 2 coaxial inputs; 3 S-video inputs; 1 digital output; monitor output; S-video output. Independent subwoofer channel; 6-channel crossover; dynamic-range compression. Center- and rear-channel delay; remote control with on-screen display; 6 independent channel-level controls. S/N 90 dB. 16½ x 3 x 14 in; 11 lb $1,000

AP-2000 Preamplifier
6 inputs; MC phono input; subwoofer output; gold-plated RCA inputs. Subwoofer crossover switchable at 75 or 150 Hz. Separate listen and record selectors; bass and treble controls; remote control. FR 20 Hz-20 kHz ±5 dB; THD 0.02%; S/N 95 dB. 16½ x 3⅛ x 14⅛ in $300

PSE

HL-1 Preamplifier
1 XLR and 5 RCA inputs; 2 RCA main outputs; XLR output; aux output. Dual-mono hybrid tube design. Bass and treble control; remote control of volume, mute, on/off, and processor loop. Upgradable interface panel optional. FR 1 Hz-100 kHz ±0.5 dB; S/N 100 dB; max output 24 V rms. Black anodized chassis with natural-aluminum knobs. 5-yr parts-and-labor warranty. 17½ x 4 x 16 in; 19 lb . . $2,395
MM/MC phono stage $500

QUICKLINE

PA-4 Phono Preamplifier
MM and MC inputs; noninverting-polarity output. Class A design; external power-supply chassis with 100-VA toroidal transformer; output regulation circuit; dual-mono audio circuit cards. Selectable cartridge-loading resistors; switch-selectable input-gain setting. Includes PSU-1 external power supply. S/N 90 dBA MM, 75 dBA MC $1,595

QUICKSILVER AUDIO

Linestage Tube Preamplifier
Video, CD, tuner, tape, and aux inputs. Class A design; one triode tube section per channel. Auto turn-on/off and mute; volume control; mono/stereo switch; right and left switch only. FR 0.1 Hz-120 kHz –3 dB; THD 0.01%; max output 65 V rms. Black chassis, silver, or black front panel. 3-yr warranty. 15 x 3 x 9½ in; 12 lb $995

Quicksilver Phono Tube Preamplifier
12AX7 input tube; 6922 output tube. High filter switch; AC outlet. FR 20 Hz-20 kHz ±0.25 dB; THD 0.1%; max output 50 V rms. Black chassis, silver,

or black front panel. 3-yr warranty. 15 x 3 x 9½ in; 13 lb $895

Moving-Coil Transformer Phono Preamplifier
250 ohm RCA input; gold-plated RCA outputs. 2 separate transformers optimized for the RIAA phono EQ curve. FR 1 Hz-100 kHz –3 dB; max output 2.8 V rms. Black anodized aluminum case. 3-yr warranty. 2½ x 1¼ x 5 in; 3 lb $375

RANE

PS1 Phono Preamplifier
RCA inputs; RCA and XLR screw terminal outputs. External power supply; 18-dB/oct rumble filter at 15 Hz. Selectable 100-, 250-, or 450-pF cartridge loading. S/N 84 dB. 3-yr warranty. 5 x 1¾ x 4½ in; 1 lb $229

ROTEL

RC-995 Preamplifier
7 inputs including MM/MC phono; dual RCA outputs; XLR outputs; headphone jack. Remote control. FR 4 Hz-100 kHz ±0.5 dB line; THD 0.004%. 17⅜ x 2⅞ x 12¾ in $900

RTC 940 Preamplifier/Tuner
RCA inputs and outputs; processor loop; headphone jack; 3 switched AC outlets. Bass, treble, defeat, balance, and mute off/mono control; remote control. FR 4 Hz-100 kHz ±0.3 dB; THD 0.004%; S/N 100 dB. FM: 50-dB quieting sens 37.2 dBf; cap ratio 1.0 dB; alt-ch sel 70 dB; S/N 75 dB; THD 0.25%. Black. 5-yr warranty. 17⅜ x 3⅝ x 11¾ in; 11 lb $500

RC 972 Preamplifier
6 RCA inputs; 2 RCA outputs; 2 switched outlets. Class AB design. Separate listen and record selectors; remote control. Phono upgrade optional. FR 4 Hz-100 kHz ±3 dB; THD 0.004%; S/N 95 dB; max output 1 V rms. Black. 5-yr warranty. 17⅜ x 2⅞ x 11¼ in; 9 lb $400

RC-971 Preamplifier
5 inputs; dual outputs; 2 tape loops; headphone jack. Tone defeat. FR 4 Hz-100 kHz ±3 dB; THD 0.004%. 17⅜ x 2⅞ x 10¼ in $300

RQ-970BX Phono Preamplifier
MM/MC phono input; line-level output. FR 20 Hz-20 kHz ±0.2 dB; THD 0.004%; S/N 75 dB MM, 70 dB MC. 17⅜ x 2⅞ x 7¾ in $200

RUSSOUND

PR-4Z A/V Preamplifier
3 stereo audio inputs; 3 stereo A/V inputs; 4 preamp outputs; 4 video outputs. 4 separate stereo preamps mounted and interconnected on single chassis; multizone; multisource. 40-step volume control; 12-step tone controls; loudness control; video switching between 3 sources. FR 20 Hz-20 kHz ±0.1 dB; THD 0.06%; S/N 95 dB; max output 10 V rms. 17 x 3 x 12 in; 12 lb $1,995
AP48. 4-zone amp module $925
PR.4ZKP. Keypads $275
PR.4ZLRN. Learning keypads $275
PR.4ZPK. Paging keypads with mic and source overrides $135
PR.4ZRC. Remote control $99

SHERWOOD

AVP-9080 Dolby Digital/DTS Preamplifier/ Processor/Tuner
Dolby Digital, DTS, Dolby Pro Logic, and 4 ambience modes. RF Coaxial and optical digital inputs; 5 A/V inputs; 6 audio inputs; 6 preamp outputs; switchable MC/MM inputs. 20-bit A/D and D/A converters; two 24-bit DSP 56009 Motorola processors; built-in RF demodulator for laserdiscs; 4-gang quartz PLL-synthesis tuner. On-screen display; sleep timer; preset scan; 30-station preset; auto input balance; dynamic-range control; multiroom remote input; universal remote can control subwoofer level, DSS, VCR, tape deck, TV, cable box, and CD changer; programmable video-input labeling; cinema bass; digital volume control. FR 20 Hz-20 kHz ±3 dB; THD 0.003%. FM: 50-dB quieting sens 38 dBf; AM rej 70 dB; cap ratio 1.25 dB; adj-ch sel 12 dB; alt-ch sel 80 dB; S/N 73; THD 0.25%. Titanium. 3-yr parts-and-labor warranty. 17⅜ x 6¼ x 15⅛ in; 18 lb $1,200

SIGNATURE TECHNOLOGIES

SRp-7g Tube Preamplifier
5 line-level inputs; phono input; gold-plated Teflon RCA connectors. Shielded power supply with 6CG7 and 12AX7 vacuum tubes; glass-epoxy circuit boards with film-type resistors and polypropylene capacitors. Hardwood endcaps and an acrylic faceplate; independent tape monitoring. FR 20 Hz-20 kHz ±1 dB line; THD 0.01%; S/N 72 dB phono, 90 dB line. 5 x 19 x 15½ in; 30 lb $1,995
As above, 6 line-level, no phono inputs $1,695

SONIC FRONTIERS

Line 3 Tube Preamplifier
2 XLR inputs; 4 RCA inputs; RCA surround inputs; RCA tape input and output; headphone output; 2 XLR outputs; 2 RCA outputs. Fully balanced operation from input to output; digital volume and balance control at 0.5-dB resolution, 191-steps; direct-coupled output stage; dual-chassis design; dual-mono circuitry; regulated power supplies for each chassis; constant-on filament supplies. 10-function remote control; LED display; relay switching; tape loop; mono/stereo mode. FR 2 Hz-250 kHz ±0.5 dB; THD 0.02%; S/N 100 dBA; max output 56 V rms. Black or gold. 5-yr parts-and-labor warranty. 19 x 4½ x 14¼ in; 60 lb $4,999
Line 2. As above without dual-mono circuitry. 19 x 4½ x 14¼ in; 33 lb $3,299
Line 1. As Live 2, but with single-chassis design. 24 lb $2,499

Phono 1 Phono Tube Preamplifier
2 RCA phono inputs; 2 RCA line-level outputs. Low-noise, high-gain hybrid JFET vacuum-tube circuitry; optimized for MC cartridges; RIAA EQ. Cue control; selectable cartridge loading. FR 20 Hz-20 kHz ±0.15 dB; THD 0.035%; S/N 80 dBA; max output 32 V rms. Black or gold. 5-yr parts-and-labor warranty. 19 x 4½ x 12 in; 24 lb $1,999

SONOGRAPHE

SC26 Preamplifier
6 line-level inputs. Discrete power-supply regulation. Level and balance controls in 0.5-dB steps; remote control. FR 5 Hz-100 kHz; THD 0.1%. 17 x 2¾ x 11½ in $995

SONY

TAE90ES Preamplifier
Inputs for 6-line-level sources; MM and MC phono inputs; analog XLR inputs and outputs; 2 tape loops; headphone jack. Dual-mono design; MOSFET output stage; MC head amp; rotary-resistor attenuator and attenuator shaft mounted in vibration-isolating subchassis; round toroidal-core power transformer; off-center cast-iron isolation feet; aluminum front panel; motor-driven volume control. Remote control. FR 3 Hz-300 kHz ±0.3 dB line; THD 0.003% at 1 kHz; S/N 95 dB MM, 85 dB MC, 105 dB line. Black. 5-yr warranty. 17 x 3⅞ x 14¾ in; 23 lb $2,000

TAE2000ESD Digital A/V Preamplifier
Dolby Pro Logic. 5 audio inputs including phono; 7 A/V inputs; 3 S-video inputs; 1 coaxial and 2 optical digital inputs; optical digital output; 2 subwoofer and 2 center-channel outputs; 3 switched and 1 unswitched AC outlets. Pulse A/D conversion, 90-MHz 8-output HDLC D/A converter; auto sampling-rate switching between 32, 44.1, and 48 kHz; digital channel-separation control; source-direct switch bypassing digital circuitry. All processing in digital domain with auto input balance; 10 factory and 10 user-adjustable sound-field parameters; 3-band digital parametric EQ; independent EQs for front, center, and surround channels; digital dynamic-range control; Control S input for Sony multiroom systems; record-out selector; programmable A/V remote control. Black. 5-yr warranty. 17 x 6 x 14¼ in; 19 lb $1,400

SDP-EP9ES Digital Preamplifier
Dolby Digital, Dolby Pro Logic, Digital Cinema Sound, and 3D-Cinema Sound modes. 3 optical digital inputs; coaxial digital input; AC-3 RF digital inputs; optical digital output. 24-bit digital processing; full-feed forward digital filter; current-pulse D/A converter; motor-driven master volume control; anti-resonant insulator feet. 20-character display; digital balance, bass, and treble controls; auto processing selection; speaker-size setup with bass redirection. Includes 3 pair gold-plated audio cables. 5-yr limited warranty. 17 x 3⅞ x 14 in; 14 lb $750

SOUND VALVES

The Glory Hybrid Tube Preamplifier
6 line-level inputs; direct input; high-pass or full-range line-level output; line-level subwoofer output; 2 buffered tape outputs; headphone jack. 2-way crossover with 12-dB/oct low-pass slope. Balance control; mono/stereo switch; auto/manual mute; subwoofer-output level control. FR 2 Hz-200 kHz –3 dB line; THD 0.03% line; S/N 90 dB line. Black or gold machined-aluminum faceplate and chassis. 3-yr limited parts-and-labor warranty. 17¼ x 3½ x 10¼ in; 14 lb $1,795

VTP-101i Tube Preamplifier
6 line-level inputs; phono input; 2 line-level outputs; 2 tape outputs; signal-processor loop. 6 Sortek 12AX7 tubes. Balance control; tape-monitor controls; mono/stereo switch; auto/manual mute; adjustable phono loading. FR 20 Hz-20 kHz –0.2 dB phono, 5 Hz-100,000 –3 dB line; THD 0.01% at 1 kHz line; S/N 75 dBA phono, 90 dB line. Black or gold machined-aluminum faceplate. 3-yr limited parts-and-labor warranty. 17¼ x 3½ x 10¼ in; 13 lb $799

SV-100 Preamplifier
Headphone jack. JFET circuitry. Phono section optional. FR 20 Hz-20,000 ±0.1 dB; THD 0.005%; S/N MM 87 dB, MC 80 dB. Black, gold, or chrome machined faceplate $549

STANTON

Model 310B Preamplifier
Universal mounting via special brackets; selection of flat or NAB post emphasis curves; switchable affective rumble filter; individual adjustment of gains and frequency responses. FR 20 Hz-20 kHz ±0.5 dB $329

SUNFIRE

Classic Vacuum Tube Preamplifier
5 inputs; 2 RCA outputs; XLR output. All-tube design. High- and low-trim signal-contour controls. Black anodized metal. 5-yr parts-and-labor warranty. 19 x 6½ x 15¾ in $1,495
Tube phone stage for above $350

SUTHERLAND

C-2000 Preamplifier
Dual-mono construction on 1/8-inch thick glass-epoxy circuit board, simplified signal path; constant-current, high-imp power supply isolates signal path from power source; brushed and clear anodized machined-aluminum enclosure. Remote control. 9⅝ x 3¾ x 17 in $8,000

PH-2000 Phono Preamplifier
Gain and RIAA EQ to boost MM or MC cartridges. Gain and cartridge loading optimized with plug-in

Preamplifiers

gold-plated component carriers to avoid sonic degradation caused by DIP switches; constant-current, high-imp power supply isolates signal path from power source. 9⅝ x 3¾ x 17 in $6,800

C-800 Preamplifier
4 RCA inputs; XLR input. Sliding volume, source selection, and muting controls. 19 x 7½ x 17 in; 52 lb $5,485
Phono module $885
Universal remote control $100

SYMPHONIC LINE
The following carry a 5-year warranty.

Erleuchtung Tube Preamplifier
MM/MC phono inputs; 4 line-level inputs; 2 outputs; 2 tape outputs. Separate 300-VA power supply. FR 2 Hz-120 kHz. Chrome finish. 18 x 4 x 15 in; 58 lb $6,900

P30 Preamplifier
4 line-level inputs; 2 tape inputs; 2 outputs. Modular design through plug-ins internally; external 350-VA power supply. FR 1 Hz-250 kHz. Machined anodized. 19 x 4 x 12 in; 60 lb $5,000
Remote control $200

P20 Preamplifier
4 line-level outputs; 1 output; MM/MC phono output; tape output. Shielded 300-VA power supply. Machined anodized. 19 x 4 x 12 in; 38 lb . . .$2,500

TANDBERG
TCA 4038 Preamplifier
6 audio inputs; signal-processor loop. Logic-driven electromagnetic input switching. Tape-monitor switches; tone-control defeat; remote control of all functions. FR 20 Hz-20 kHz +0, –5 dB; S/N 90 dB. 17¼ x 3¼ x 13¾ in; 14 lb $1,099

TAURUS AUDIO
LS2S Tube Preamplifier
CD, tape, video, tuner, aux inputs; 2 outputs. Two 6DJ8 and one 6N6 tube. Detachable power cord. Bi-amp output optional. FR 5 Hz-20 kHz; THD 0.008%; S/N 120 dB. 17¾ x 3⅛ x 12¾ in; 14 lb $700

TECHNICS
SU-C1000 Preamplifier
5 line-level source inputs; MM/MC phono input. 30-hr Ni-Cd battery-driven power supply for noise reduction; auto battery charging when preamp is turned off; auto switching to rectified AC power when battery is depleted. Tape-monitor switch; A/B speaker switch; balance control; defeatable tone controls; remote control $530

THETA DIGITAL
Casablanca A/V Preamplifier and D/A Converter
Dolby Digital, DTS, and Dolby Pro Logic modes. Digital and analog preamps; electronic crossover; two-level D/A conversion with two-level signal paths; fully balanced, differential operation. Video switching $4,495

Casa Nova A/V Preamplifier
6 RCA analog inputs; 12 digital inputs; RCA and XLR audio outputs; 6-channel analog outputs. 24-bit conversion; analog volume control. Remote control. Dolby Digital/DTS decoder, RF demodulator, and additional outputs optional. Black or silver. 5-yr warranty $3,000

THORENS
TTP 2000 Preamplifier
Gold-plated RCA jacks; phono input. Phono stage. Instant muting when switched off. FR 10 Hz-150 kHz ±0.3 dB; THD 0.02%; S/N 99 dB. 8¼ x 3⅝ x 13⅜ in; 10 lb $1,600

MM 1 Phono Preamplifier
Aux and tape inputs. RIAA EQ for MM phono cartridges; external power supply. FR 20 Hz-20 kHz ±0.5 dB; S/N 82 dBA. 4 x 1½ x 3 in $180

TUBE RESEARCH LABS
GTRP Tube Preamplifier
6 line-level inputs; tube-buffered recording output. 6 tubes for main chassis; 18 tubes for power supply. Polished-gold main chassis. Preamp: 19 x 12 x 14 in. Power supply: 19 x 12 x 25 in $12,500

GTRP.P Tube Phono Preamplifier
2 phono inputs. 6 tubes for main chassis; 18 tubes for power supply. Polished-gold main chassis. Preamp: 19 x 12 x 14 in. Power supply: 19 x 12 x 25 in $12,500

GTP Tube Phono Preamplifier
6 tubes for phono; 6 tubes for power supply; 2 chassis connected by detachable chord $4,000

TUBE TECHNOLOGY
Prophet Tube Preamplifier
Tape, tuner, CD, and 2 aux inputs; 2 preamp outputs; record output. Twin triode design operating in single-ended pure class A mode. Separate listen and record selectors. FR 4 Hz-120 kHz; THD 0.003%; S/N 78 dB; max output 6 V rms. Black; available in silver. 14 x 3 x 10 in; 22 lb $3,000

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As the global leader in high power amplifier technology, CINEPRO is uniquely qualified to reproduce the full impact and dramatic experience of today's new digital soundtracks.

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"...The B & W 803's sounded unusually punchy and clean: in full five channel surround playback, the volume of clean sound was awesome."
– D. Kumin, Stereo Review, *June 1997*

"Once an amplifier reaches a caliber like this, straight-forward clarity and dynamic case is all you can ask for. Let's just say I've grown attached." *– K. Suager,* Secrets of Home Theater and High Fidelty Magazine, *Jan. 1998*

The award-winning 3k6 has quickly established a benchmark which all other home theater amplifiers are compared to. With 350 watts of power available to all six channels, movie soundtracks come alive and put you in the middle of the action.

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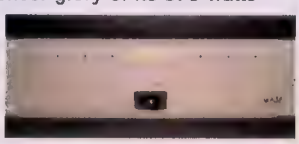
For the few who simply cannot live without the best, our *Special Edition* 3k6SE is without peer. Hand-crafted using the finest possible components, the sheer glory of its 375 watts into all six channels makes the 3k6SE the world's ultimate multi-channel theater amplifier.



$5995

Preamplifiers

MAC Tube Preamplifier
MM/MC inputs; line-level output. Single-ended class A operation; dual regulated power supplies. Loading pins for varying phono-input resistance/capacitance. FR 4 Hz-35 kHz; THD 0.05%; S/N 72 dB; max output 1 V rms. Black; available in silver. 14 x 3 x 10 in; 13 lb $2,000

Seer Line Tube Preamplifier
Tape, tuner, CD, and 2 aux inputs; 2 preamp outputs; record output. Low-noise double triode operating in single-ended class A mode. FR 4 Hz-116 kHz; THD 0.05%; S/N 75 dB; max output 8 V rms. 13 lb $1,500
Seer Phono. As above, MM phono stage . . .$1,650

VAC

CPA1 MkIII Tube Preamplifier
6 line-level inputs; MM/MC phono inputs; tape loop; buffered tape and 2 main outputs. Class A triode-tube design; dual-cascode phono inputs; hard-wiring; separate regulated power supply; non-magnetic chassis; stepped-volume attenuators. Selectable passive-buffered line-stage mode; adjustable phono imp, capacitance, and gain. XLR output optional. FR 6 Hz-90 kHz. Preamp: 6 x 18 x 13½ in; 25 lb. Power supply: 6¾ x 7 x 12½ in; 25 lb . . .$6,490
CPP1 MkIII. As above, phono section only $4,690
CLA1 MkIII. As CPA1 MkIII, but with no phono inputs $4,290

CLA-2/CPA-2 Tube Preamplifier
5 line-level inputs; 2 phono inputs; RCA tape input and output; 2 main outputs. All Class A triode-tube circuitry. Remote control of volume, balance, source selector, and mute. 5-yr warranty. 20⅞ x 7¼ x 16¾ in; 22 lb $5,000
MC/MM phono stage $1,990

Model 20.1 Tube Preamplifier
4 line-level inputs; tape loop. Class A triode-tube design; nonmagnetic chassis. Auto turn-on muting; defeatable tape outputs. Gloss-black faceplate. 18 x 3½ x 11 in; 10 lb $1,390

WOODSIDE

SC26P Tube Preamplifier
6 line-level inputs; 2 main outputs; 2 buffered tape outputs; switchable MM/MC phono input. Independent voltage-regulation for each tube with discrete solid-state regulators; 10 tubes for power supply; solid-core silver-plated wiring; metal-film resistors. THD 0.1%; S/N 80 dB phono, 85 dB line. 17 x 3½ x 14 in $3,495
As above without phono inputs $2,495

SC27P Tube Preamplifier
4 line-level inputs; MC phono input; tape monitor. 5 vacuum-tube power supply with independent voltage regulation for each tube. THD 0.1%; S/N 70 dB phono, 85 dB line. 17 x 3½ x 14 in $2,000
As above with MM phono input instead . . .$1,895
As above without phono input $1,595

WRIGHT

LT-3 Tube Preamplifier
7 line-level inputs; high-impedance output for tube; low-impedance output for transistor power amps; 2 tape outputs; fixed-level output; gold-plated input/output jacks. Outboard power supply; bass and treble controls with turnovers at 90 Hz and 10 kHz; matched-channel potentiometers. FR 10 Hz-60 kHz ±0.5 dB; THD 0.05%; S/N 92 dBA. Black-anodized, aircraft-aluminum chassis with solid dark-oak side panels. 3-yr warranty. Control unit: 18 x 6¼ x 8 in. Power supply: 6¾ x 4 x 7¾ in $1,250

PH-2. Tube phono stage. 18 x 5 x 8 in $650
Power supply for PH-2. 18 x 6¼ x 8 in $350

XANTECH

ZPR68-10 Preamplifier
8 A/V inputs; 6 A/V outputs; 6 discrete infrared zone inputs and outputs; 8 common infrared outputs. Expandable for up to 9 additional zones; input level matching; customized settings stored in nonvolatile memory. Independent zone control of source selection, volume, bass, treble, and balance; requires RC 68 remote control. FR 5 Hz-70 kHz ±3 dB; THD 0.01%; S/N 98 dB; max output 4 V rms. Black anodized. 14 x 7 x 2½ in; 4 lb $2,000

RP41AV Preamplifier
4 stereo line-level audio inputs; composite-video input; 1 line-level audio output; 1 composite-video output. Flat pack design; remote-controllable via Xantech infrared receiver and/or keypad. Remote control. FR 20 Hz-20 kHz ±1 dB; THD 0.01%; S/N 100 dB; max output 4.5 V rms. Black anodized. 10 x 1⅜ x 3 in; 1 lb $320
RC68. Remote control for models ZPR68 and RP41AV $160
Model 291-10. Infrared receiver for remote . . .$62

YAMAHA

CX-2 Preamplifier
8 audio and 3 video inputs; MM/MC phono input; S-video connectors; remote link for MX-1 or MX-2 amp. Motor-driven input selector, volume control; source-direct mode; switchable infrasonic filter; variable loudness control; record-out selector; center-defeat tone controls; programmable remote. FR 20 Hz-20 kHz; THD 0.002%; S/N 110 dB; max output 10 V. 17⅛ x 3⅝ x 12¾ in; 12 lb $799

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Our *Special Edition* flagship stereo amplifiers are amazingly transparent and dynamically potent. Years of engineering design work and exhaustive listening tests have yielded an incredible blend of power and finesse in these hand-crafted products. Utilizing only the finest components from Rel-Cap, Wima, Motorola, and Kimber Kable Silver — ensures not only reliability, but a musicality that truly defines the Cinepro experience.

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LC-1 $945
700x2 $995
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Power Amplifiers

ACCUPHASE

M-2000 250-W Mono Amplifier
1 channel. 250 W into 8 ohms with 0.03% THD, 500 into 4 ohms with 0.03% THD, or 1,000 into 2 ohms with 0.05% THD, all from 20 Hz-20 kHz. Class AB operation; current feedback circuitry topology prevents phase shifts. 1 RCA input; 1 XLR input. Input selector switch; power-level meter; phase selector; circuit breaker. S/N 120 dBA; damping factor 400. 3-yr warranty. 18¾ x 10 x 21½ in; 111 lb $27,000/pr

A-50 50-W/ch Amplifier
2 channels. 50 W x 2 or 200 x 1, both into 8 ohms from 20 Hz-20 kHz with 0.02% THD. Circuit-breaker protection. XLR and RCA inputs. Input-level controls; 2 digital power meters. S/N 110 dBA; damping factor 160 stereo. 18¾ x 9½ x 19¾ in; 107 lb $14,995

P-700 350-W/ch Amplifier
2 channels. 350 W x 2 or 1,000 x 1, both into 8 ohms. Current feedback circuit topology prevents phase shifts; bridged mode allows upgrading to true monophonic amp; circuit breaker. XLR and RCA inputs. FR 20 Hz-20 kHz ±0.2 dB; S/N 123 dB; damping factor 200 mono, 400 stereo. 19¼ x 9⅜ x 21¼ in; 93 lb $12,995

P-550 270-W/ch Amplifier
2 channels. 270 W x 2 or 840 x 1, both into 8 ohms. Circuit-breaker protection; current-feedback circuit topology; P-channel and N-channel drive MOSFET circuits; 10 multiple-emitter transistors in parallel push-pull output stage; balanced signal transmission; gold-plated signal paths; temperature-compensation sensor transistor; aluminum heat sink. XLR inputs; gold-plated inputs; two set of switchable outputs. A/B speaker selector; input/bridge selector; analog L/R output meters. FR 20 Hz-20 kHz; THD 0.02% from 4 to 16 ohms stereo; S/N 123 dBA; damping factor 250 mono, 500 stereo. Champagne-gold brushed-finished aluminum front panel. 18¾ x 8½ x 17½ in; 73 lb $8,995

P-450 200-W/ch Amplifier
2 channels. 200 W x 2 into 8 ohms, 300 x 2 into 4 ohms, 400 x 2 into 2 ohms, or 800 x 1 into 4 ohms, all from 20 Hz-20 kHz with 0.02% THD; 600 x 1 into 2 ohms from 20 Hz-20 kHz with 0.05% THD. 4 transistors in parallel push-pull output stage. XLR input; RCA input. Power meters; meter-light switch; mono/stereo switch. S/N 120 dBA; damping factor 400 stereo, 200 mono. Brushed aluminum. 19 x 9 x 19 in; 68 lb $6,000

P-350 150-W/ch Amplifier
2 channels. 150 W x 2 or 420 x 1 into 8 ohms. Class A PNP transistors predriver; current feedback input buffer; temperature sensor for bias-stabilizer circuit; DC servo op-amp. Gold-plated XLR and RCA inputs; 2 pair switchable outputs. A/B speaker selector; input/bridge selector. FR 20 Hz-20 kHz; THD 0.02% from 4 to 16 ohms; S/N 120 dBA; damping factor 180 mono, 360 stereo. Champagne-gold brushed-finished aluminum front panel. 18¾ x 6¾ x 17⅛ in; 52 lb $3,500

ACOUSTIC MASTERPIECE

AM-M101 12-W Tube Mono Amplifier
1 channel. 12 W into 8 ohms from 20 Hz-20 kHz with 1% THD. 2 KT-88 and 2 ECC83/12AX7 vacuum tubes. 38 lb $2,100

ACURUS

The following are available with an optional 19-inch front panel.

A125x5 625-W Amplifier
5 channels. 125 W x 5 into 8 ohms from 20 Hz-20 kHz with 0.06% THD or 190 x 5 into 4 ohms. Class A fully discrete input driver stage without ICs. S/N 110 dBA. 55 lb $1,599

A200x3 600-W Amplifier
3 channels. Designed for home-theater systems. 200 W x 3 cont into 8 ohms from 20 Hz-20 kHz with 0.06% THD or 300 x 3 cont into 4 ohms. S/N 110 dBA. 17 x 6¼ x 14½ in; 39 lb $1,399

A200 200-W/ch Amplifier
2 channels. 250 W x 2 cont into 8 ohms from 20 Hz-20 kHz with 0.06% THD or 300 x 2 into 4 ohms. Class A fully discrete input driver stage without ICs; handcrafted construction; symmetrical circuit topology; bipolar Class A/B output stage. S/N 110 dBA. 17 x 5 x 13¼ in; 32 lb $999

A100x3 300-W Amplifier
3 channels. Designed for home-theater systems. 100 W x 3 cont into 8 ohms from 20 Hz-20 kHz with 0.06% THD or 150 x 3 cont into 4 ohms. S/N 110 dBA. 17 x 5½ x 12¼ in; 29 lb $949

A100 100-W/ch Amplifier
2 channels. 100 W x 2 cont into 8 ohms from 20 Hz-20 kHz with 0.06% THD or 150 x 2 into 4 ohms. Handcrafted construction; bipolar output transistors. S/N 110 dBA. 17 x 5 x 12 in; 19 lb $649

ADCOM

GFA-5802 300-W/ch Amplifier
2 channels. 300 W x 2 into 8 ohms or 450 x 2 into 4 ohms. All-MOSFET circuitry; separate front-end and main transformers; single-ended Class A front-circuitry; 32 precision matched HEXFET output devices. XLR and RCA inputs; biwirable. Distortion-alert and thermal-protection lights. S/N 105 dBA; dynamic headroom 2.3 dB. Black. 17 x 8¼ x 15½ in; 48 lb $1,750

GFA-7500 750-W THX Amplifier
5 channels. 150 W x 5 into 8 ohms or 225 x 5 into 4 ohms, both with 0.03% THD. DC coupled; 5 RCA inputs; DB-25 input. 12-V DC remote power trigger. S/N 115 dB; dynamic headroom 1.9 dB. 17 x 7¼ x 15 in; 64 lb $1,500

GFA-5503 600-W Amplifier
3 channels. 200 W x 3 into 8 ohms or 350 x 3 into 4 ohms. 1-ohm stability; low negative feedback, 30 precision-matched MOSFET output devices; constant damping factor. RCA inputs. FR 3 Hz-130 kHz ±0.25 dB; THD 0.18%; S/N 100 dB. 17 x 7¼ x 16 in; 57 lb $1,300
GFA-5500. As above, 2 channels. 200 W x 2 into 8 ohms or 350 x 2 into 4 ohms. 20 precision-matched MOSFET output devices. 17 x 7¼ x 14¾ in; 44 lb $1,000
GFA-5400. As above, 125 W x 2 into 8 ohms or 200 x 2 into 4 ohms. 12 precision-matched MOSFET output devices. 17 x 5½ x 12½ in; 24 lb $680
GFA-5300. As above, 80 W x 2 into 8 ohms or 125 x 2 into 4 ohms. 8 precision-matched MOSFET output devices. 17 x 4½ x 12¼ in; 22 lb $450
GFA-5200. As above, 50 W x 2 into 8 ohms or 80 x 2 into 4 ohms. 4 precision-matched MOSFET output devices. S/N 98 dB. 17 x 3¼ x 12¼ in; 17 lb . . .$350

GFA-7400 500-W Amplifier
5 channels. 100 W x 5 into 8 ohms or 150 x 5 into 4 ohms, both with 0.03% THD. DC coupled; high-current design. 5 RCA inputs. 12-V DC remote power trigger. S/N 110 dB; dynamic headroom 2.5 dB. 17 x 5¾ x 15 in; 48 lb $1,000

GFA-5006 300-W Amplifier
6 channels. 50 W x 6 into 8 ohms, 75 W x 6 into 4 ohms, or 175 W x 3 into 8 ohms, all with 0.09% THD. High-current design. 6 inputs; 6 outputs. Level controls for each channel; signal-sensing on/off. S/N 100 dB. 17 x 5¼ x 15½ in; 38 lb . .$800
GFA-5002. As above, 2 channels. 50 W x 2 into 8 ohms, 75 x 2 into 4 ohms, or 175 x 1, all with 0.09% THD. 2 inputs and outputs. 17 x 3½ x 12½ in; 21 lb $400

GFA-2535/L 240-W Amplifier
4 channels. 60 W x 4 or 60 x 2 + 200 x 1 into 8 ohms. Level controls for each pair of channels. FR 10 Hz-20 kHz ±0.5 dB; THD 0.06%; S/N 100 dB. 17 x 5½ x 14 in; 32 lb $700

GFA-7300 300-W Amplifier
5 channels. 60 W x 5 into 8 ohms or 90 x 5 into 4 ohms, both with 0.03% THD. DC coupled; high-current design. 5 RCA inputs. S/N 115 dB; dynamic headroom 1.9 dB. 17 x 5 x 14¾ in; 40 lb . . .$700

A/D/S/

PA8 400-W Amplifier
8 channels. 50 W x 8, 50 x 6 + 125 x 1, 50 x 4 + 125 x 2, 50 x 2 + 125 x 3, or 125 x 4, all into 4 ohms from 20 Hz-20 kHz with 0.12% THD. Discrete Class AB design by Ed Meitner; fan cooling. Remote turn-on. S/N 85 dBA; slew rate 17 V/µs; damping factor 150. 17⅛ x 4 x 13¾ in; 20 lb $1,500

AIR TIGHT

ATM-3 100-W Tube Mono Amplifier
1 channel. 100 W in triode mode. Six 6CA7, one 12AX7, and one 12AU7 vacuum tubes; triple-push-pull circuitry; hand crafting; selectable ultralinear or triode-tube mode; no printed circuit boards. Adjustable bias for each 6CA7 output tube; 30-sec turn-on delay; tube-bias meter. FR 20 Hz-20 kHz ±1 dB; S/N 100 dBA $11,500/pr

ATM-2 80-W/ch Tube Amplifier
2 channels. 80 W x 2 into 8 ohms at 1 kHz with 1% THD. Six KT-88 output tubes; two 12AX7A, two 12AU7A, and two 12BH7A tubes; handcrafted construction; OFC wiring; no printed circuit boards; copper-plated chassis and bottom plated; aluminum front panel. CD-direct input. Adjustable tube bias. FR 20 Hz-20 kHz ±1 dB; S/N 100 dBA $6,695

ATM-1 36-W/ch Tube Amplifier
2 channels. 36 W x 2 into 8 ohms at 1 kHz with 1% THD. Four 6CA7, two 12AU7, one 12AX7A, and two 5AR4 vacuum tubes; OFC wiring; cathode-follower direct drive; no printed circuit boards. CD-direct input. FR 20 Hz-20 kHz ±1 dB; S/N 100 dBA . . .$4,195

ATM-4 24-W/ch Tube Amplifier
2 channels. 24 W x 2 or 48 x 1, both into 8 ohms with 0.1% THD. Four 6L6GC, two 6FQ7, and one 12AT7 vacuum tubes; adjustable balance-check circuit; multiple chassis coating. FR 20 Hz-20 kHz ±1 dB; S/N 100 dB. 15¼ x 8¼ x 13⅝ in; 51 lb $3,995

AMC

CVT 2100a 80-W/ch Amplifier
2 channels. 80 W x 2 from 45 Hz-20 kHz with 1.0% THD into 8 ohms. Class AB operation; 2 cooling fans; separate 4 ohm and 8 ohm output taps. 2 RCA line-level inputs; 5-way binding post on all outputs; 2 switched AC and 1 unswitched AC outlets. Power switch. S/N 95 dB; ch sep 65 dB. Black. 17 x 5 x 13 in; 43 lb $1,250
MD 2103. Balanced stereo input module $275
MD 2102. Balanced bridging input module for mono operation $165

Model 2N100-3 450-W Amplifier
3 channels. 150 W x 3 from 20 Hz-20 kHz with 0.03% THD into 8 ohms. Class AB output. 3 RCA line inputs; 3 pair 5-way binding post outputs; 1 IEC unswitched AC power outlet. Input level control for each channel. S/N 102 dBA; damping factor 100. Black. 17 x 5 x 13 in; 44 lb $900

Model 2N100-2 150-W/ch Amplifier
2 channels. 150 W x 2 into 8 ohms from 20 Hz-20 kHz with 0.03% THD. Class AB output; commutating power supply. 2 RCA line-level inputs with parallel output; 5-way binding post outputs; 1 IEC unswitched power AC outlet. Input controls for each channel. S/N 102 dBA; damping factor 100. Black. 17 x 5 x 13 in; 38 lb $650

Model 2445 180-W Amplifier
4 channels. 45 W x 4 or 90 x 2, both into 20 Hz-20

kHz into 8 ohms with 0.03% THD, or 90 x 1 + 45 x 2 with 0.05% THD. Class AB output; dual power supplies. 4 RCA line inputs; 4 pair 5-way binding posts; 2 switched AC outlets. Input level controls for each channel; bridging switches. S/N 100 dBA; damping factor 100. Black. 17 x 5 x 13 in; 28 lb $450

AMPLIFIER TECHNOLOGIES (ATI)

AT2505 1,250-W Amplifier
5 channels. 250 W rms x 5 into 8 ohms from 20 Hz-20 kHz with 0.03% THD. Class AB operation; modular design. 6 gold-plated inputs; 1 DB-25 input; gold-plated touch-proof binding posts. Peak indicator LEDs; remote power-on; fuse-fault indicators. S/N 120 dBA; ch sep 90 dB; slew rate 50 V/µs; damping factor 1,000; dynamic headroom 2 dB. Glass-bead blast front panel; powder-coated chassis. 7-yr parts-and-labor warranty. 17 x 10½ x 18 in; 110 lb $2,695

ATI506 900-W Amplifier
6 channels. 150 W x 6 into 8 ohms or 225 x 6 into 4 ohms. DB-25 input; European-standard output terminals. Class AB output operation; fuse-fault indicators. FR 20 Hz-20 kHz; THD 0.05%; S/N 100 dB; slew rate 50 V/µs; dynamic headroom 2 dB. 7-yr parts-and-labor warranty. 17 x 7 x 17 in; 88 lb $1,995

ATI505 750-W Amplifier
5 channels. 150 W x 5 into 8 ohms from 20 Hz-20 kHz with 0.03% THD or 225 x 5 into 4 ohms. Class AB operation; modular design. 6 gold-plated RCA type inputs; 1 DB-25 input; 6 gold-plated binding posts. Fuse-fault indicators; remote power-on. S/N 120 dBA; ch sep 90 dB; slew rate 50 V/µs; damping factor 1,000; dynamic headroom 2 dB. Glass bead blast front panel and powder coat chassis. 7-yr parts-and-labor warranty. 17 x 7 x 16 in; 73 lb $1,695

ATI504 600-W Amplifier
4 channels. 150 W x 4 into 8 ohms or 225 x 4 into 4 ohms. European-standard output terminals. Class AB output operation; fuse-fault indicators. FR 20 Hz-20 kHz; THD 0.05%; S/N 100 dB; slew rate 50 V/µs; dynamic headroom 2 dB. 7-yr parts-and-labor warranty. 17 x 7 x 11 in; 64 lb $1,395

ATI502 150-W/ch Amplifier
2 channels. 150 W x 2 into 8 ohms or 225 x 2 into 4 ohms. European-standard output terminals. Class AB output operation; fuse-fault indicators. FR 20 Hz-20 kHz; THD 0.05%; S/N 100 dB; slew rate 50 V/µs; dynamic headroom 2 dB. 7-yr parts-and-labor warranty. 17 x 7 x 6 in; 40 lb $795

ANTHEM

AMP-2 160-W/ch Tube Amplifier
2 channels. 160 W rms x 2 into 8 ohms or 320 W rms x 2 into 4 ohms with 0.05% THD. Class AB solid-state outputs; vacuum-tube input stage; bridgeable to mono. 2 gold-plated inputs; 2 outputs; 5-way binding post outputs. Front-panel power switch; bridging switch. S/N 90 dB; slew rate 20 V/µs; damping factor 100; dynamic headroom 1.5 dB. Black or silver. 5-yr parts-and-labor warranty. 19 x 5¼ x 16 in; 50 lb $1,699

AMP-1 40-W/ch Tube Amplifier
2 channels. 40 W x 2 into 4 or 8 ohms from 20 Hz-20 kHz with 1% THD. Class AB; push-pull ultralinear design; regulated power supplies. 1 pair line-level inputs; 1 pair speaker-level outputs. Output impedance selectable via 4 and 8 ohm taps on rear-panel binding posts. S/N 100 dBA; damping factor 14. Silver and black. 5-yr parts-and-labor warranty. 19 x 5¼ x 12 in; 40 lb $1,195

ARAGON

Palladium 2 125-W Mono Amplifier
1 channel. 125 W into 8 ohms with 0.02% THD or 600 x 1 into 4 ohms, both from 5 Hz-20 kHz. Class A operation with Class A/B mode into 2 or 4 ohms; balanced dual-differential design via 2 discrete amps in single chassis; separate amplification of positive and negative balanced-input signals; 2,000-VA transformer. S/N 112 dB. 19 x 6½ x 14½ in; 75 lb $5,000

The following feature direct circuit coupling with no capacitors in signal path, matched output transistors, and auto bias circuitry.

Model 8008 BB 200-W/ch Amplifier
2 channels. 200 W x 2 cont into 8 ohms with 0.03% THD or 400 x 2 into 4 ohms, from 5 Hz-20 kHz. Dual-mono design; DC servo control. S/N 110 dBA. 19 x 6½ x 14½ in; 75 lb $2,499

Model 8008x3 600-W Amplifier
3 channels. 200 W x 3 cont into 8 ohms with 0.03% THD or 400 x 3 cont into 4 ohms, from 5 Hz-20 kHz. DC servo control. S/N 110 dBA. 19 x 8 x 16½ in; 65 lb $2,499

Model 8008 ST 200-W/ch Amplifier
2 channels. 200 W x 2 cont into 8 ohms with 0.03% THD or 400 x 2 into 4 ohms, both from 5 Hz-20 kHz. Dual-mono design; DC servo control. S/N 110 dBA. 19 x 6½ x 4½ in; 70 lb $1,999

Model 8002 125-W/ch Amplifier
2 channels. 125 W x 2 cont into 8 ohms with 0.03% THD or 200 x 2 cont into 4 ohms, both from 5 Hz-20 kHz. Dual-mono design. S/N 110 dBA. 19 x 6½ x 14½ in; 55 lb $1,499

ARCAM

Alpha 10 P3 300-W Amplifier
3 channels. Designed for use with the Alpha 10 integrated Dolby Digital/DTS amp. 100 W x 3 from 20 Hz-20 kHz. Class AB output; biamp-mode capability. Charcoal finish. 17 x 4½ x 15 in; 22 lb ...$1,699

Alpha 10P 100-W/ch Amplifier
2 channels. 100 W x 2 rms into 8 ohms from 20 Hz-20 kHz with 0.08% THD. Class AB output. Preamp outputs to allow daisy-chain binding. Upgrade to 3-channel model optional. Charcoal finish. 17 x 4½ x 15 in; 22 lb $1,199

Alpha 9P 70-W/ch Amplifier
2 channels. 70 W x 2 into 8 ohms. Line input/output jacks; headphone jack. Speaker switching. 12 lb $799
Alpha 8P. As above, 50-W/ch. 9 lb $499

ART AUDIO

Maestro Plus 210-W Tube Mono Amplifier
1 channel. 210 W ultralinear mode or 120 x 1 triode mode. Class A triode switchable push-pull; eight 6550 output tubes per amp. THD 0.3%. Chrome and gold finish $10,000/pr
As above, chrome and black finish $7,995/pr

Maestro 110-W Tube Mono Amplifier
1 channel. 110 W ultralinear mode or 70 x 1 triode. Class A triode switchable push-pull; eight EL34 output tubes. Chrome and gold finish. THD 0.3%. 60 lb $7,995/pr
As above, chrome and black finish $5,995/pr

Tempo 30-W Tube Mono Amplifier
1 channel. 30 W. Pure Class A dedicated triode 30-W push-pull; four EL34 output tubes per amp. Chrome and gold finish. THD 0.3% $5,500/pr
As above, black and chrome finish $4,395/pr

Quintet 15-W Mono Amplifier
1 channel. 15 W. Class A triode push-pull design. Chrome and gold finish. THD 0.3% $4,995/pr
As above, black and chrome finish $3,595/pr

Quintet 25-W/ch Amplifier
2 channels. 25 W x 2 ultralinear mode or 15 x 2 triode. Pure Class A triode switchable push-pull. Chrome and gold. 45 lb $2,850
As above, chrome and black finish $2,450

AUDIO ADVANCEMENTS

Trimax 45-W Mono Tube Amplifier
1 channel. 45 W. 807 tetrode output tube. FR 5 Hz-110 kHz; THD 0.1%. 9¼ x 7¼ x 18 in ...$5,250/pr
Designer version. 9½ x 8¼ x 16⅜ in $4,250/pr

AUDIO BY VAN ALSTINE

FET-Valve 550hc 250-W/ch Tube Amplifier
2 channels. 250 W x 2 into 8 ohms. Hybrid design with vacuum tube; Class A MOSFET trans-impedance circuitry. THD 0.04%. 17 x 7 x 13 in; 38 lb ...$1,799
FET-Valve 350hc. As above, 150 W x 2 .....$1,499

Omega III 440 220-W/ch Amplifier
2 channels. 220 W x 2 into 8 ohms. Active feedback design. THD 0.05%; slew rate 150 V/µs. 17 x 7 x 13 in; 38 lb $1,299
Omega III 260. As above, 130 W x 2. 30 lb ..$999
Omega III 200. As Omega III 260, 90 W x 2. 26 lb $799

AUDIOCONTROL

Architect Model 700 600-W Multizone Amplifier
2 channels x 6 zones. 50 W x 12 into 8 ohms from 20 Hz-20 kHz with 0.12% THD. Designed for multi-room applications. Class H/AB outputs; multiple-rail design; patented power-supply regulation; protection circuitry provides independent channel protection against clipping, overheating, short circuit, and DC offset; programmable infrasonic filter; patented power-supply regulation. 12 RCA inputs; dual removable 12-position euroblock connectors. Input-bussing selector; input-level controls; remote power controls; signal-sense muting; channel-status indicators; ground-lift switch; six 6-band stereo equalizers; price varies with installation. S/N 100 dB; ch sep 75 dB; slew rate 16 V/µs; dynamic headroom 0.8 dB. Black. 5-yr warranty. 17 x 5¼ x 16 in; 35 lb. Base price $2,900
Architect Model 500 600-W Amplifier as above, no six 6-band stereo equalizers $2,400
Rack mounts for above $50

AUDIO ELECTRONICS

Except where noted, kit versions of the following are available for $200 less than the assembled products.

SE-811 12-W Tube Mono Amplifier
1 channel. 12 W. Single-ended Class A design; 811-3 triode output tubes. 4- and 8-ohm switch. FR 19 Hz-23 kHz ±0.5 dB; S/N 78 dB. 16 x 8 x 14 in; 42 lb $1,995/pr
As above, kit version $1,299/pr

SET-IIM 20-W/ch Amplifier
1 channel. 20 W. Class A; single-ended MOSFET output. FR 15 Hz-45 kHz ±1 dB; S/N 89 dB. 16 x 6¾ x 10 in; 23 lb $1,595/pr
As above, kit version $1,199/pr

SE-1 Signature 8-W/ch Tube Amplifier
2 channels. 8 W x 2 from 15 Hz-20 kHz ±0.5 dB. Single-ended pure Class A design. Cetron 300B output speaker posts. S/N 84 dB. 14 x 7⅝ x 10 in; 31 lb $1,449
As above, Western Electric 300B tubes $1,949
As above, China 300B tubes $1,249
As above with copper tubes $1,049

SE-1 7-W/ch Tube Amplifier
2 channels. 7 W x 2. Single-ended pure Class A design; Cetron 300B output tubes. FR 15 Hz-20 kHz ±0.5 dB; S/N 84 dB. 14 x 7⅝ x 10 in; 31 lb $1,299
As above with Western Electric 300B output tubes $1,799
As above, China 300B output tubes $1,099
As above, 300B output tubes $899

SE-88 12-W/ch Tube Amplifier
2 channels. 12 W x 2. Single-ended Class A design; KT-88 output tubes. FR 20 Hz-23 kHz $999

Power Amplifiers

AE-20 20-W/ch Tube Amplifier
2 channels. 20 W x 2 into 8 ohms from 20 Hz-20 kHz with 1.5% THD. Push-pull Class A operation. One RCA input; one 5-way binding-post output. S/N 80 dB; ch sep 70 dB. Black epoxy-coated steel with wood chassis. 3-yr warranty. 14 x 6¾ x 11 in; 25 lb $899
Oil-filled coupling capacitors $60/pr

AUDIOLAB

The following have no input coupling capacitors and feature automatic fault protection and muting.

Model 8000PX 100-W/ch Amplifier
2 channels. 100 W x 2 into 8 ohms or 175 x 2 into 4 ohms. Thermally efficient dual-mono design. THD 0.05%; S/N 95 dB. 17½ x 3 x 13 in; 18 lb ..$1,195

Model 8000MX 125-W Mono Amplifier
1 channel. 125 W into 8 ohms or 200 x 1 into 4 ohms. Thermally efficient design. Dual inputs for biamping; 2 sets of outputs. FR 4 Hz-75 kHz; THD 0.05%; S/N 96 dB. 17½ x 3 x 13 in; 19 lb $995

Model 8000SX 60-W/ch Amplifier
2 channels. 60 W x 2 into 8 ohms or 100 x 2 into 4 ohms. Thermally efficient dual-mono design. Dual inputs for biamping; 2 sets of outputs. FR 0.1 Hz-75 kHz; THD 0.05%; S/N 95 dB. 17½ x 3 x 13 in; 18 lb $895

AUDIO NOTE

Conquest 17-W Tube Mono Amplifier
1 channel. 17 W. Pure Class A design; single-ended circuit using one 300B tube per channel; tube-rectified choke-filtered power supply; no negative feedback; copper chassis; silver wiring $9,000/pr

Quest 8-W Tube Mono Amplifier
1 channel. 8 W. Pure Class A design; single-ended circuit using one 300B tube/channel; tube-rectified choke-filtered power supply; no negative feedback; copper chassis; silver wiring. 31 lb $5,650/pr

Conqueror 8-W/ch Tube Amplifier
2 channels. 8 W x 2. Pure Class A design; single-ended circuit using one 300B tube per channel; tube-rectified choke-filtered power supply; no negative feedback; copper chassis; silver wiring. 31 lb $3,500

P2-SE 17-W/ch Tube Amplifier
2 channels. 17 W x 2. Class A design; 6L6 output tubes. Volume control. 34 lb $2,800

P1-SE 11-W/ch Tube Amplifier
2 channels. 11 W x 2. Class A design; two EL84 output tubes. 11⅞ x 5¾ x 17½ in; 28 lb $1,900

AUDIOPLEX TECHNOLOGY

Model 4RM AMP-35 35-W/ch Multizone Amp
2 channels x 4 zones. 35 W x 2 rms into 8 ohms from 20 Hz-20 kHz with 0.05% THD. Six line-level source inputs with tape loops; push spring clips outputs. 6-source selector; 4 zone speaker switching with on/off; volume controls for each zone. Lifetime warranty. 16¾ x 2⅝ x 12 in; 16 lb ...$694
Rack mount brackets for above $50

AMP 10 10-W/ch Amplifier
2 channels. 10 W x 2 rms into 8 ohms from 20 Hz-20 kHz. Proprietary circuit protection. Two RCA inputs; spring-clip output. Volume control; on/off switch. Black fine texture. Lifetime warranty. 8 x 2½ x 5 in $210

AUDIOPRISM

Mana Reference 100-W Tube Mono Amplifier
1 channel. 100 W into 2, 4, 6, or 8 ohms from 20 Hz-20 kHz with 1% THD. Class AB fixed-bias operation; 14 fully regulated power supplies; OFHC internal wiring; vibration-damped, mechanically isolated transformer mounting; one 5842, four 6SN7, and eight 5881/6L6GC tubes; triode or ultralinear operation. Gold-plated Teflon-insulated RCA input jacks; 7 output binding posts. Auto standby; bias meter. 15 x 8½ x 23 in; 68 lb $14,995/pr

Debut II Dual 35-W Tube Amplifier
2 channels. 35 W x 2 into 2, 4, 6, or 8 ohms with 1% THD. Class AB operation; Dual-mono construction; 12AT7 input and EL34 output tubes; OFHC internal wiring; power-line filter; discrete FET-controlled power supplies; vibration-damped, mechanically isolated transformer mounting. Teflon-insulated RCA input jacks. Bias meter. FR 5 Hz-50 kHz; S/N 85 dB. Black or silver anodized finish $2,595
As above, brushed-champagne-gold anodized finish $2,495
Antares. As above, ultralinear operation only. No enhanced power supply. Black-steel chassis with gold lettering and gold-anodized faceplate $1,695
Black transformer cover for Antares $100

AUDIO RESEARCH

Reference 600 500-W Tube Mono Amplifier
1 channel. 500 W cont into 16 ohms from 20 Hz-20 kHz with 1% THD. XLR inputs. AC and bias meters. 19 x 10½ x 29½ in; 170 lb $14,995

VT200 200-W/ch Tube Amplifier
2 channels. 200 W x 2 into 4, 8, or 16 ohms from 20 Hz-20 kHz with 1% THD. XLR and RCA inputs. Natural, gray, or black anodized brushed-aluminum front panel. 3-yr warranty. 19 x 10½ x 23⅝ in; 118 lb $8,995

VT100 100-W/ch Amplifier
2 channels. 100 W x 2 into 8 or 4 ohms. XLR and RCA inputs. Slew rate 25 V/µs. 19 x 8¾ x 19½ in; 65 lb $4,495

SDA1 400-W Amplifier
4 channels. 100 W x 4 into 8 ohms, 150 x 4 into 4 ohms, or 300 x 2 into 8 ohms. XLR and RCA inputs. Slew rate 50 V/µs. Natural, gray, or black anodized brushed-aluminum front panel. 3-yr warranty. 19 x 5¼ x 12⅞ in; 37 lb $3,995

Model 100.2 100-W/ch Amplifier
2 channels. 100 W x 2 into 8 ohms or 200 x 2 into 4 ohms. XLR and RCA inputs. Removable power cord. Natural, gray, or black anodized front-panel. 19 x 5¼ x 11⅞ in; 35 lb $3,495

VT50 45-W/ch Tube Amplifier
2 channels. 45 W x 2 into 4 or 8 ohms from 15 Hz-30 kHz with 1% THD. XLR and RCA inputs. Removable power cord. Slew rate 10 V/µs. Natural, gray, or black anodized brushed-aluminum front panel. 3-yr warranty. 19 x 7 x 15 in; 41 lb $2,995

VT60SE 50-W/ch Amplifier
2 channels. 50 W x 2 into 4, 8, or 16 ohms. RCA inputs. Natural, gray, or black anodized brushed-aluminum front panel. 3-yr warranty. 19 x 7¼ x 13⅜ in; 38 lb $2,495
VT60. As above without front-panel assembly. 14 x 7 x 13⅜ in; 33 lb $1,995

D130 130-W/ch Amplifier
2 channels. 130 W into 8 ohms or 200 x 1 into 4 ohms. XLR inputs. Slew rate 50 V/µs; damping factor 100. 19 x 5¼ x 8⅜ in; 27 lb $1,995

AUDIOSOURCE

AMP Three 150-W/ch Amplifier
2 channels. 150 W x 2 rms into 8 ohms or 400 x 1 into 4 or 8 ohms. Signal-sensing auto on; A/B speaker selector. FR 20 Hz-20 kHz ±0.5 dB; THD 0.04%; S/N 110 dB; dynamic headroom 2 dB. 16½ x 4 x 11⅝ in $499
AMP Two. As above, 80 W x 2 rms into 8 ohms or 200 x 1 into 4 or 8 ohms; Peak Limiter circuitry. Line-in and CD-direct inputs. 2 stage analog-output VU meters $399

AMP One/A 80-W/ch Amplifier
2 channels. 80 W x 2 into 8 ohms or 200 x 1 into 4 or 8 ohms. 16½ x 2½ x 11¾ in $299

AUDIRE

The New Monarch 600-W Mono Amplifier
1 channel. 600 W into 8 ohms or 1,200 x 1 into 4 ohms, both from 20 Hz-20 kHz with 0.009% THD. Class A design with balanced input and output; 80 power transistors; 2 transformers with 2 AC input cords; overload protection by current-sensing fuses and circuit breakers. XLR input and output. Slew rate 100 V/µs; damping factor 1,600 at 1 kHz. 13 x 32 x 13½ in; 170 lb $60,000/pr
Stereo version of above, 200 W x 2 into 8 ohms, 400 x 2 into 4 ohms, or 800 x 2 into 2 ohms. Slew rate 50 V/µs; damping factor 600 at 1 kHz $25,000

Parlando 100-W/ch Amplifier
2 channels. 100 W x 2 into 8 ohms, 200 x 2 into 4 ohms, or 360 x 2 into 2 ohms, all from 20 Hz-20 kHz with 0.02% THD. Dual-mono Class A design; 32 output transistors and 8 drivers; 1-ohm capability. RCA and XLR inputs. Slew rate 50 V/µs; damping factor 800 into 8 ohms at 1 kHz. 3-yr parts-and-labor warranty. 19 x 8¾ x 18½ in; 85 lb $3,741

Otez 250-W/ch Amplifier
2 channels. 250 W x 2 into 8 ohms, 500 x 2 into 4 ohms, 800 x 2 into 2 ohms, or 1,000 x 1 into 8 ohms. Dual-mono Class AB design; one fuse for every 2 output transistors; protection circuitry not in signal path; 2 circuit-breaker/power switches. RCA and XLR inputs. Slew rate 50 V/µs; damping factor 850 at 1 kHz. 3-yr parts-and-labor warranty. 19 x 8¾ x 18½ in; 85 lb $3,569

Tenendo 200-W/ch Amplifier
2 channels. 200 W x 2 into 8 ohms or 400 x 2 into 4 ohms, both from 20 Hz-20 kHz with 0.05% THD. Dual-mono MOSFET Class AB design; 8 bipolar output devices per channel; 2 combination circuit-breaker/power switches; protection circuitry not in signal path. XLR and RCA inputs. Slew rate 50 V/µs; damping factor 700 into 8 ohms at 1 kHz. 3-yr parts-and-labor warranty. 19 x 7 x 10 in; 45 lb $2,354
As above, non-MOSFET version. 19 x 7 x 10 in; 45 lb $2,154

Forte 125-W/ch Amplifier
2 channels. 125 W x 2 into 8 ohms, 250 x 2 into 4 ohms, or 400 x 2 into 2 ohms, all from 20 Hz-20 kHz. Dual-mono MOSFET design. XLR and RCA inputs. Slew rate 50 V/µs; damping factor 350 at 1 kHz. 19 x 5¼ x 10 in; 41 lb $1,467
As above, dual-mono bipolar version. 19 x 5¼ x 10 in; 41 lb $1,360

Crescendo 75-W/ch Amplifier
2 channels. 75 W x 2 into 8 ohms or 130 x 2 into 4 ohms, both from 20 Hz-20 kHz. MOSFET design. XLR and RCA outputs. Slew rate 45 V/µs; damping factor 300 at 1 kHz. 19 x 5¼ x 9 in; 22 lb $825
As above, bipolar version. 19 x 5¼ x 9 in $760

B&K COMPONENTS

All B&K Components speakers feature Class AB MOSFET output stages, high-current toroidal transformers, and discrete circuitry.

Reference 4430 600-W Amplifier
3 channels. 200 W x 3 from 5 Hz-45 kHz with 0.09% THD. 3 line-level inputs; 3 outputs. Level controls. S/N 95 dB; slew rate 14 V/µs; damping factor 400; dynamic headroom 1.1 dB. Black. 5-yr warranty. 17 x 5¾ x 16 in; 43 lb $1,700

AV6000 Series II 750-W Amplifier
6 channels. 125 W x 6 from 5 Hz-45 kHz with 0.09% THD. 6 line-level inputs; 6 outputs. Level controls. S/N 95 dB; slew rate 14 V/µs; damping factor 150; dynamic headroom 1.4 dB. Black. 5-yr warranty. 17 x 5¾ x 16 in; 43 lb $1,500

Power Amplifiers

AV5000 Series II 625-W Amplifier
5 channels. 125 W x 5 from 5 Hz-45 kHz with 0.09% THD. 5 line-level inputs; 5 outputs. Level controls. S/N 95 dB; slew rate 14 V/µs; damping factor 150; dynamic headroom 1.4 dB. Black. 5-yr warranty. 17 x 5¾ x 16 in; 43 lb $1,300

Reference 4420/Mono 250-W Mono Amplifier
1 channel. 250 W x 1 into 8 ohms with 0.09% THD. Line-level input; XLR output; 1 output. S/N 95 dB; slew rate 14 V/µs; damping factor 750; dynamic headroom 1.4 dB. Black. 5-yr warranty. 17 x 5¾ x 16 in; 42 lb $1,300

Reference 4420/Stereo 225-W/ch Amplifier
2 channels. 225 W x 2 into 8 ohms with 0.09% THD. 2 line-level inputs; 2 XLR inputs; 2 outputs. S/N 95 dB; slew rate 14 V/µs; damping factor 450; dynamic headroom 1.2 dB. Black. 5-yr warranty. 17 x 5¾ x 16 in; 42 lb $1,300

ST3030 Series II 200-W/ch Amplifier
2 channels. 200 W x 2 into 8 ohms with 0.09% THD. 2 line-level inputs; 2 XLR outputs; 2 outputs. S/N 95 dB; slew rate 14 V/µs; damping factor 180; dynamic headroom 1.1 dB. Black. 5-yr warranty. 17 x 5¾ x 16 in; 39 lb $1,000

AV2500 300-W Amplifier
5 channels. 60 W x 5 from 5 Hz-45 kHz with 0.09% THD. 5 line-level inputs; 5 outputs. Level controls. S/N 95 dB; slew rate 14 V/µs; damping factor 80; dynamic headroom 1.0 dB. Black. 5-yr warranty. 17 x 3¾ x 12 in; 23 lb $800

ST1430 Series II 375-W Amplifier
3 channels. 125 W x 3 from 5 Hz-45 kHz with 0.09% THD. 3 line-level inputs; 3 outputs. Level controls. S/N 95 dB; slew rate 14 V/µs; damping factor 100; dynamic headroom 1.0 dB. Black. 5-yr warranty. 17 x 5¾ x 16 in; 39 lb $800

ST-1400 Series II/Stereo 124-W/ch Amplifier
2 channels. 124 W x 2 into 8 ohms from 5 Hz-45 kHz with 0.09% THD. 2 line-level inputs; 2 outputs. Level controls. S/N 95 dB; slew rate 14 V/µs; damping factor 100; dynamic headroom 1.4 dB. Black. 5-yr warranty. 17 x 5¾ x 16 in; 31 lb $700

ST-1400 Series II/Mono 150-W Mono Amplifier
1 channel. 150 W x 1 into 8 ohms with 0.09% THD. Line-level input; XLR input. S/N 95 dB; slew rate 14 V/µs; damping factor 180; dynamic headroom 1.5 dB. Black. 5-yr warranty. 17 x 5¾ x 16 in; 30 lb $700

ST1200 Series II 60-W/ch Amplifier
2 channels. 60 W x 2 from 5 Hz-45 kHz with 0.09% THD. 2 line-level inputs; 2 outputs. S/N 95 dB; slew rate 14 V/µs; dynamic headroom 1.4 dB. Black. 5-yr warranty. 17 x 3¾ x 12 in; 23 lb $500

BEL

Model 1001 MkII 50-W/ch Amplifier
2 channels. 50 W x 2 into 8 ohms, 100 x 2 into 4 ohms, 200 x 2 into 2 ohms, 200 x 1 into 8 ohms, or 400 x 1 into 4 ohms. Class A operation; convection cooling with temperature-stabilizing circuitry; accelerated warm-up; temperature-, frequency-, output-, and load-fault protection. RCA inputs; copper binding-post outputs. Mono/stereo switch; rack-mountable. 17¼ x 7¾ x 13 in $4,045
Non-rack-mount version. 19 x 8¼ x 14¾ in . . .$3,895

BEL CANTO DESIGN

Orfeo 80 80-W Tube Mono Amplifier
1 channel. 80 W x 2 rms into 8 ohms from 5 Hz-35 kHz with 0.1% THD. Class A1 operation; single-ended triode; self-biasing; short signal path; zero feedback. 1 pair XLR inputs; 1 pair RCA inputs. 4/8-ohm switch. Wood finish optional. S/N 96 dBA; ch sep 100 dB; damping factor 3; dynamic headroom 0.5 dB. Black. 19½ x 11 x 15 in; 72 lb . . .$11,250/pr
Tube cage for above $180

Orfeo 40 40-W Tube Mono Amplifier
1 channel. 40 W into 8 ohms from 5 Hz-35 kHz with 0.2% THD. Class A1 operation; single-ended triode; self-biasing; short signal path; zero feedback. 1 pair XLR inputs; 1 pair RCA inputs. 4/8-ohm switch. Wood finish optional. S/N 96 dBA; ch sep 100 dB; damping factor 3; dynamic headroom 0.5 dB. Black. 3-yr warranty. 19½ x 11 x 15 in; 62 lb $8,500/pr
Tube cage for above $180

SET 80 74-W Tube Mono Amplifier
1 channel. 74 W x 2 rms into 8 ohms from 5 Hz-35 kHz with 0.1% THD. Single-ended triode; class A1 operation; self biasing; short signal path; zero feedback. 1 pair XLR inputs; 1 pair RCA inputs. 4/8-ohm switch. S/N 96 dBA; ch sep 100 dB; damping factor 3; dynamic headroom 0.5 dB. Black. 3-yr warranty. 19½ x 11 x 15 in; 62 lb $8,200/pr
Gold-ring package for above $360/pr
Tube cage for above $180

Orfeo 40S 40-W/ch Tube Amplifier
2 channels. 40 W x 2 rms into 8 ohms from 5 Hz-35 kHz with 0.2% THD. Class A1; single-ended triode; self-biasing; short signal path; zero feedback. 1 pair RCA inputs. 4/8-ohm switch. Wood finish optional. S/N 96 dBA; ch sep 70 dB; damping factor 3; dynamic headroom 0.5 dB. Black. 3-yr warranty. 19½ x 11 x 15 in; 72 lb $5,625
Tube cage for above $180

Solid 400 400-W/ch Amplifier
2 channels. 400 W x 2 rms into 8 ohms. 1 pair RCA inputs; 1 pair XLR inputs. S/N 100 dBA; ch sep 70 dB; slew rate 150 V/µs; damping factor 100; dynamic headroom 1.5 dB. Black or silver finish. 3-yr warranty. 17 x 6½ x 16 in; 80 lb $5,000

SET 40 37-W/ch Tube Amplifier
2 channels. 37 W x 2 rms into 8 ohms from 5 Hz-35 kHz with 0.2% THD. Class A1; single-ended triode; self-biasing; zero feedback. 1 pair RCA inputs. 4/8-ohm switch. S/N 96 dBA; ch sep 70 dB; damping factor 3; dynamic headroom 0.5 dB. Black. 3-yr warranty. 19½ x 11 x 15 in; 62 lb $4,100
Gold-ring package for above $360/pr
Tube cage for above $180

Solid 250 250-W/ch Tube Amplifier
2 channels. 250 W x 2 rms into 8 ohms. 1 pair RCA inputs; 1 pair XLR inputs. S/N 100 dBA; ch sep 70 dB; slew rate 150 V/µs; damping factor 100; dynamic headroom 1.5 dB. Black or silver finish. 3-yr warranty. 17 x 6½ x 14 in; 65 lb $3,000

BERNING

Siegfried 10-W/ch Tube Amplifier
2 channels. 10 W x 2 rms into 6 ohms from 0.5 Hz-20 Hz with 4.3% THD. Single-ended operation; no output transformer; no feedback; proprietary RF impedance conversion; DC-coupled with DC speaker protection; offset servo; regulated switching power supply; RF heating of output tubes. One set of inputs; one set of outputs. Level control. S/N 94 dBA; ch sep 60 dB; damping factor 4; dynamic headroom 1 dB. 13 x 9 x 17 in; 18 lb $5,750

ZH270 70-W/ch Tube Amplifier
2 channels. 70 W x 2 into 8 ohms from 2-80 kHz with 1% THD or 70 x 2 into 4 ohms from 2-35 kHz with 2% THD. Fully regulated switching power supply; auto servo-bias; auto DC-offset null; 250-ms DC full-fault speaker protection; push-pull pair of 6JN6 tubes in the output stage; no output transformer; proprietary RF impedance converter. 2 sets of input per channel; 1 output per channel. A/B input selector; 3-position feedback switch; level control. 10 lb $4,500

BGW SYSTEMS

Grand Touring Amplifiers
The following are designed for use in touring sound applications and heavy-duty permanent installations.

GTA 360-W/ch Amplifier
2 channels. 360 W x 2 rms into 8 ohms from 20 Hz-20 kHz with 0.10% THD, 625 x 2 rms into 4 ohms from 20 Hz-20 kHz with 0.15% THD, or 1,000 W x 2 into 2 ohms from 20 Hz-20 kHz with 0.25% THD. Class AB operation; precision-stepped attenuators; forced-air cooling; individual channel modules; speaker-protection fuses; magnetic circuit breaker. XLR inputs; binding-post outputs. Switchable subsonic filters; signal-presence indicators; stereo/mono/dual switch; high-pass filter/flat switch; ground-lift jumper; LED display. S/N 106 dB; ch sep 80 dB at 1 kHz; slew rate 20 V/µs; damping factor 500. 3-yr warranty. 19 x 5¼ x 14½ in; 80 lb $2,299

GTB 330-W/ch Amplifier
2 channels. 330 W x 2 rms into 8 ohms from 20 Hz-20 kHz with 0.15% THD, 495 x 2 into 4 ohms from 20 Hz-20 kHz with 0.25% THD, or 850 x 2 into 2 ohms from 20 Hz-20 kHz with 0.25% THD. Class AB operation; precision-stepped attenuators; forced-air cooling; individual channel modules; speaker-protection fuses; magnetic circuit breaker. XLR inputs; binding-post outputs. Switchable subsonic filters; signal-presence indicators; stereo/mono/dual switch; high-pass filter/flat switch; ground-lift jumper; LED display. S/N 106 dB; ch sep 75 dB at 1 kHz; slew rate 20 V/µs; damping factor 500. 3-yr warranty. 19 x 5¼ x 13 in; 57 lb . . .$1,599
OP15-GTB. 18 dB/oct 2-way crossover card . .$124
OP06-GTB. Transformer-isolated inputs with rear-panel locking shaft $99
OPHPS-GTB. Gain controls $75

Performance Series
The following are designed for use in permanent or mobile installations. All are THX-certified.

PS4 440-W/ch THX Amplifier
2 channels. 440 W x 2 rms into 8 ohms from 20 Hz-20 kHz with 0.15% THD or 660 x 2 into 4 ohms from 20 Hz-20 kHz with 0.1% THD. Class AB operation; transient-free switching; DC speaker protection; modular design; forced-air cooling; welded steel chassis; short-circuit and thermal protection. XLR inputs; binding-post outputs. Stereo/mono switch; LED display; clipping-limiter switch; switch-selectable input configuration. S/N 100 dBA; damping factor 200. 3-yr warranty. 19 x 3½ x 18 in; 58 lb $1,999
PS3. As above, 330 W x 2 rms into 8 ohms from 20 Hz-20 kHz with 0.15% THD or 500 x 2 rms into 4 ohms from 20 Hz-20 kHz with 0.1% THD. 19 x 3½ x 13½ in; 40 lb $1,399
PS2. As above, 220 W x 2 rms into 8 ohms from 20 Hz-20 kHz with 0.15% THD or 330 x 2 rms into 4 ohms from 20 Hz-20 kHz with 0.1% THD. No clipping-limiter switch. 19 x 3½ x 13½ in; 37 lb . . .$999
PS1. As PS2, 110 W x 2 rms into 8 ohms from 20 Hz-20 kHz with 0.15% THD or 165 x 2 rms into 4 ohms from 20 Hz-20 kHz with 0.1% THD. 31 lb $849

Millennium Series
The following are designed for use in permanent or mobile installations. All are THX-certified.

MIL3 330-W/ch THX Amplifier
2 channels. 330 W x 2 rms into 8 ohms from 20 Hz-20 kHz with 0.15% THD or 500 x 2 rms into 4 ohms from 20 Hz-20 kHz with 0.1% THD. Class A/B design; Modular construction; transient-free switching; forced-air cooling; DC speaker protection; short-circuit protection; thermal protection; open circuit protection; subsonic protection; RF protection; 2-speed fan; clipping-elimination circuit. XLR inputs; touch-proof binding-post outputs. Adjustable high-pass filter; LED indicators; detented gain controls; removable front-panel knobs; on/off muting; high-pass filter; clipping-limiting switch. S/N 100 dBA; damping factor 200. 19 x 5¼ x 14½ in; 44 lb $1,259
BGWMILX. 1/2 autoformer compatible with any Millenium Series power amp $160
BGWTMC-2. Theater crossover card with 500 Hz and 800 Hz switchable crossovers, switchable de-

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lay line, master and high-frequency attenuators, and screen-compensation EQ. Compatible with MIL2 or MIL3 power amps $149
MIL2. As above, 220 W x 2 rms into 8 ohms from 20 Hz-20 kHz with 0.15%THD or 330 x 2 rms into 4 ohms from 20 Hz-20 kHz with 0.1% THD. No clipping-elimination circuitry. 19 x 5¼ x 12⅞ in; 44 lb $899
MIL1. As MIL2, 110 W x 2 rms into 8 ohms from 20 Hz-20 kHz with 0.15% THD or 165 x 2 into 4 ohms from 20 Hz-20 kHz with 0.1% THD. 19 x 5¼ x 12⅞ in; 38 lb $699

BLUE CIRCLE

BC2 75-W Mono Amplifier
1 channel. 75 W into 8 ohms from 10 Hz-25 kHz +0, –0.2 dB. Class A single-ended design; hybrid-tube input; bipolar-transistor output. 1 RCA input; 1 dual binding-post output. 3-yr parts-and-labor warranty. 16½ x 10¼ x 25½ in; 104 lb . . .$6,000/pr

BC6 25-W/ch Amplifier
2 channels. 25 W x 2 from 10 Hz-25 kHz into 8 ohms. Class A single-ended design; hybrid-tube input; bipolar-transistor output; vibration-damping feet. 1 RCA input per channel; 1 dual binding-post output per channel. Brushed stainless-steel chassis. 3-yr parts-and-labor warranty. 25¾ x 6⅞ x 14¾ in; 55 lb $3,700

BOULDER

Model 2050 1,000-W Mono Amplifier
1 channel. 1,000 W into 2, 4, or 8 ohms from 5 Hz-200 kHz with 0.0005% THD. Class A operation; proprietary gain stages. XLR input with loop-through; custom speaker terminals. Remote turn-on. S/N 135 dBA $59,000/pr

Model 2060 600-W/ch Amplifier
2 channels. 600 W x 2 into 2, 4, or 8 ohms from 5 Hz-200 kHz with 0.0005% THD. Class A operation; proprietary gain stages. XLR input with loop-through; custom speaker terminals. Remote turn-on. S/N 135 dBA $34,000

Model 500 150-W/ch Amplifier
2 channels. 150 W x 2 cont into 8 ohms from 20 Hz-20 kHz with 0.0015% THD, 250 x 2 cont into 4 ohms, or 500 x 1 cont into 8 ohms. Switching between mono-balanced-output and stereo operation; 120/240-V operation. Slew rate 35 V/µs; damping factor 800 at 1 kHz. 17 x 7¾ x 16½ in; 60 lb $6,995
Model 500M. As above, metal finish with rack handles $6,295
Model 500AE. As Model 500, 120-V operation only. Features 990-gain stage hand-built with 69 discrete components $5,395
Model 102M. As Model 500AE, not bridgeable. 100 W x 2 cont into 8 ohms from 20 Hz-2 kHz with 0.0015% THD or 170 x 2 cont into 4 ohms. Metal finish. 17 x 4⅛ x 16½ in $4,295
Model 102AE. As Model 102AE, without metal finish $3,995

BRYSTON

The following feature a 20-year warranty and a switch to separate system and audio grounds.

Model 9B-ST 600-W/ch Amplifier
5 channels. 120 W x 5 into 8 ohms or 200 x 4 into 4 ohms. Separate power supplies for each channel; modular construction. Gold-plated XLR and RCA inputs. S/N 110 dB; slew rate 60 V/µs; damping factor 500. 19 x 5¼ x 16 in; 65 lb $3,695
Model 9B-ST THX. THX version of above with 12-V trigger $3,795

Model 8B-ST 480-W Amplifier
4 channels. 120 W x 4 into 8 ohms. 2-, 3-, or 4-channel operation. FR 0.5 Hz-50 kHz; THD 0.007%; slew rate 60 V/µs; damping factor 500. 19 x 5¼ x 15½ in $2,995
Model 5B-ST. As above, 3 channels only . . .$2,465

Model 7B-ST 500-W Mono Amplifier
1 channel. 500 W into 8 ohms. Soft-start circuitry; 2,496-square-in heat sink. Gold-plated XLR and RCA inputs. Series/parallel switch. FR 20 Hz-20 kHz; THD 0.01%; slew rate 60 V/µs; damping factor 300 into 8 ohms at 20 kHz. 19 x 5¾ x 15½ in; 42 lb $2,398
Model 7B-ST THX. THX version $2,495

Model 4B-ST 250-W/ch Tube Amplifier
2 channels. 250 W x 2 into 8 ohms. Soft-start circuitry; input buffer. Gold-plated connectors; XLR and RCA inputs. LED indicators; mono/stereo switch. FR 20 Hz-20 kHz; THD 0.01%; slew rate 60 V/µs; damping factor 500 into 8 ohms at 20 Hz. 19 x 5¼ x 15½ in; 42 lb $2,397
Model 4B-ST THX. THX version $2,497

Model 3B-ST 120-W/ch Amplifier
2 channels. 120 W x 2 into 8 ohms. Quad-complementary output section; 1,248-square-in heat sink. Gold-plated RCA and XLR inputs. Mono/stereo switch; LED indicators. THD 0.01%; slew rate 60 V/µs; damping factor 500 into 8 ohms at 20 Hz. 19 x 5¼ x 9 in; 28 lb $1,565
Model 3B-ST THX. THX version $1,695

Model 2B-LP 60-W/ch Amplifier
2 channels. 60 W x 2 into 8 ohms. Discrete circuitry. Gold-plated 5-way binding posts and RCA connectors. Mono/stereo switch; LED indicators. THD 0.01%; slew rate 60 V/µs. 19 x 1¾ x 10 in; 48 lb $850

CARVER

AV-753x 750-W THX Amplifier
3 channels. 250 W x 3 into 8 ohms, 400 x 3 into 4 ohms, or 750 x 2 into 2 ohms, all from 20 Hz-20 kHz with 0.08% THD. Proprietary system to increase single-channel power on demand. 3 analog meters; meter-range switch; meter-light switch; individual calibrated trim controls for each channel. S/N 115 dBA; ch sep 70 dB at 1 kHz; damping factor 150. 3-yr warranty. 19 x 5¾ x 20 in; 41 lb $1,599

A-760x 380-W/ch THX Amplifier
2 channels. 380 W x 2 into 8 ohms, 600 x 2 into 4 ohms, or 1,150 x 2 into 2 ohms, all from 20 Hz-20 kHz with 0.08% THD. Proprietary system to increase single-channel power on demand. 2 analog meters; meter-range switch; meter-light switch; individually calibrated trim controls for each channel. S/N 119 dBA; ch sep 70 dB at 1 kHz; damping factor 150; dynamic headroom 1.0 dB. 3-yr warranty. 19 x 5¾ x 18⅞ in; 39 lb $1,499

Premiere AV-705x 625-W THX Amplifier
5 channels. 125 W x 5 into 8 ohms from 20-20 kHz with 0.03% THD. THX-certified; proprietary system to increase single-channel power on demand. S/N 115 dB. 19 x 5¾ x 18¾ in; 42 lb $1,299

A-500x 250-W/ch THX Amplifier
2 channels. 250 W x 2 into 8 ohms, 400 x 2 into 4 ohms, or 750 x 2 into 2 ohms, all from 20 Hz-20 kHz with 0.08% THD. Proprietary system to increase single-channel power on demand. 2 analog meters; meter-range switch; meter-light switch; individually calibrated level trim controls for each channel. S/N 117 dBA; ch sep 70 dB at 1 kHz; damping factor 150; dynamic headroom 1.0 dB. 3-yr warranty. 19 x 5¾ x 18⅞ in; 29 lb $999

AV-505x 400-W Amplifier
5 channels. 80 W x 5 into 8 ohms from 20-20 kHz with 0.03% THD. Proprietary system to increase single-channel power on demand. S/N 110 dB. 19 x 5¾ x 18¾ in; 42 lb $999

A-220 110-W/ch Amplifier
2 channels. 110 W x 2 rms into 8 ohms or 175 x 2 into 4 ohms from 20 Hz-20 kHz with 0.08% THD. Proprietary technology provides damping at all frequencies. Two analog inputs. Dual analog power meters; meter-light switch; removable rack handles; meter-range switch; level controls for each channel. S/N 112 dBA; ch sep 70 dB; slew rate 30 V/µs; damping factor 150; dynamic headroom 1.0 dB. Grained-black anodized-aluminum finish. 3-yr warranty. 19 x 4¾ x 15⅜ in; 27 lb $599

A-140 70-W/ch Amplifier
2 channels. 70 W x 2 into 8 ohms from 20 Hz-20 kHz with 0.08% THD. Protection circuitry. Two analog inputs; two analog outputs. Removable rack handles; front-panel level controls; low-profile design; A/B speaker selector; rack mountable. S/N 112 dB; ch sep 70; slew rate 30 V/µs; dynamic headroom 1.0 dB. Grained-black anodized-aluminum finish. 3-yr warranty. 19 x 2 x 12½ in; 13 lb $399
Rack 1A. Rack-mount kit for above $19.99

CARY AUDIO DESIGN

CAD-1610 65-W Tube Mono Amplifier
1 channel. 65 W Class A1 operation or 100 W x 1 Class A2 operation. Westrex Western Electric 308B output triode tubes. RCA input; XLR input. Power-level eye; current-adjust meter. S/N 85 dB. 5-yr warranty. 17 x 12 x 22 in; 135 lb $39,995/pr

CAD-211M 80-W Tube Mono Amplifier
1 channel. 80 W. Input-signal gain stage employing a pair of 6SN7 dual-triode tubes; two 300B and two 845 tubes; wax-impregnated transformers with OFC wiring; silver double-E Teflon wire. XLR and RCA inputs; 4-, 8-, and 16-ohm copper speaker posts. 10 x 12¼ x 24 in; 90 lb $14,495/pr

SLM-200 200-W Tube Mono Amplifier
1 channel. 200 W. Eight KT-88 output tubes and two 6SN7 tubes; push-pull Class A/AB circuitry. FR 20 Hz-20 kHz. 12¼ x 8½ x 24 in; 75 lb . . .$9,995/pr

CAD-805C 50-W Tube Mono Amplifier
1 channel. 50 W. Single-ended Class A circuitry; 845 triode output tubes and 300B driver tubes. FR 20 Hz-23 kHz ±0.75 dB. 8½ x 12¼ x 24 in; 75 lb $8,995/pr

CAD-845 25-W/ch Tube Amplifier
2 channels. 25 W x 2. Single-ended Class A circuitry; two 6SN7 input tubes; two 6BL7 driver tubes; two CV378 rectifier tubes; two 845 output tubes. FR 20 Hz-20 kHz ±0.75 dB. 90 lb $5,995

CAD-300SE Signature 12-W Tube Mono Amplifier
1 channel. 12 W. Single-ended triode tube design in Class A circuitry; 300B triode tubes; point-to-point hand-wiring. FR 9 Hz-23 kHz ±0.75 dB. 5½ x 7 x 19 in; 30 lb $4,795/pr

SLM-100 100-W Tube Mono Amplifier
1 channel. 100 W into 8 or 4 ohms. Push-pull Class A/AB circuitry; one 6N7 predriver; one 6SN7 phase inverter; four KT-88 power-output tubes; epoxy-coated steel chassis. FR 9 Hz-30 kHz ±0.75 dB. 10 x 6 x 20 in; 40 lb $3,695/pr
Chrome chassis for above $500

CAD-2A3SE 5-W/ch Tube Amplifier
2 channels. 5 W x 2 into 8 ohms from 15 Hz-43 kHz with 1% THD. Single-ended Class A operation. One RCA input; one 5-way binding post output. 4/8-ohm switch. S/N 90 dB; damping factor 3. Black epoxy-coated steel with black anodized aluminum face plate. 6 x 5½ x 19 in; 25 lb $2,995/pr

CAD-50M MkII 50-W Tube Mono Amplifier
1 channel. 50 W. Push-pull Class A operation; one 6SL7 input tube and two KT-88 tubes per channel; chrome chassis. FR 15 Hz-23 kHz ±0.75 dB. 27 lb $2,495/pr

CAD-572SE 20-W Tube Amplifier
2 channels. 20 W x 2 into 8 ohms from 15 Hz-23 kHz with 0.3% THD. Single-ended Class A operation. One RCA input; one 5-way binding-post output. Stand-by switch. S/N 70 dB. Black epoxy-coated steel with gold anodized aluminum face plate. 3-yr warranty. 5½ x 6 x 19 in; 25 lb $2,495/pr

channel in Class A; full-size bias pots with self-extinguishing LEDs; wood side panels; glass front-plate. Gold-plated input and output jacks. FR 30 Hz-21 kHz ±1.5 dB; THD 0.03%; S/N 100 dB; dynamic headroom 1.2 dB. 19 x 8 x 15 in; 40 lb $2,795

SRa-8 Reference 35-W/ch Amplifier
2 channels. 35 W x 2 into 8 ohms. Discrete FET input drives 2 EL34 tubes in Class A; full-size bias pots with LEDs. Gold-plated input and output jacks. FR 30 Hz-21 kHz ±2 dB; THD 0.035%; dynamic headroom 1.2 dB. 16 x 7 x 12 in; 35 lb $1,695

SONANCE

Sonamp 260 x 3 60-W/ch Amplifier
2 channels. 60 W x 2 into 8 ohms or 100 x 2 into 4 ohms. Class AB output. RCA output for daisy-chaining. On/off signal sensing; level controls; switches for 3 speaker pairs. THD 0.05% ...$499
Sonamp 260. As above without 3 speaker-pair switches $430

SONIC FRONTIERS

Power 3 220-W Tube Mono Amplifier
1 channel. 220 W into 2, 4, or 8 ohms from 20 Hz-20 kHz with 1% THD. Push-pull Class AB design; ultralinear operation; fully balanced. XLR input; 2 RCA XLR or RCA inputs; Cardas binding-post output connectors. 2-color LED Bias/Balance indicators; switch-selectable polarity and XLR/RCA inputs. S/N 110 dBA; slew rate 19 V/µs; damping factor 50. Black or gold. 5-yr parts-and-labor warranty. 18 x 9 x 22 in; 100 lb $9,999/pr

Power 2 110-W/ch Tube Amplifier
2 channels. 110 W x 2 into 2, 4, or 8 ohms, all from 20 Hz-20 kHz with 1% THD. Fully balanced operation; push-pull Class AB design; ultralinear operation. 2 XLR inputs; 4 XLR or RCA inputs; 2 pair Cardas binding posts. Switch-selectable input configuration; 2-color LED Bias indicators. S/N 110 dBA; slew rate 16 V/µs; damping factor 50. Black or gold. 5-yr parts-and-labor warranty. 18 x 9 x 22 in; 110 lb $4,999

AMP-5 650-W Amplifier
5 channels. 130 W x 5 rms into 8 ohms or 260 x 5 rms into 4 ohms, both with 0.05% THD. Class AB1. XLR input jack for each channel; RCA input jack for each channel; gold-plated binding post for each channel. Auto gain select for each channel when mixing XLR and RCA inputs. S/N 110 dB; ch sep 90 dB; slew rate 20 V/µs; damping factor 100; dynamic headroom 1.5 dB. 5-yr parts-and-labor warranty. 19 x 5¼ x 16 in; 80 lb $3,999

Power 1 55-W/ch Tube Amplifier
2 channels. 55 W x 2 into 8 ohms from 20 Hz-20 kHz with 1% THD. Push-pull class AB design; fully balanced operation; ultralinear operation. 2 XLR inputs; 4 RCA inputs; 2 output binding posts. Switch-selectable XLR/RCA input; LED Bias indicators. S/N 95 dBA; damping factor 35. Black or gold. 5-yr warranty. 15 x 9 x 20 in; 60 lb ...$2,499

SONOGRAPHE

SA400 200-W/ch Amplifier
2 channels. 200 W x 2 into 8 ohms from 20 Hz-20 kHz with 1% THD. Bipolar output stage; JFET input stage. 17 x 5¼ x 13 in $1,695
SA250. As above, 125 W x 2 .....$1,195

SONY

TA-N90ES 100-W/ch Amplifier
2 channels. 100 W x 2 into 8 ohms with 0.015% THD or 140 x 2 into 4 ohms with 0.01% THD. Power MOSFET output stage; triple push-pull complementary output stage; dual-mono design; discrete output transistors; nonmagnetic MOSFET frame; aluminum front panel; protection circuitry. XLR inputs. FR 1 Hz-20 kHz –3 dB; S/N 120 dB; damping factor 100 into 8 ohms at 1 kHz; dynamic headroom 2.8 dB. Black. 5-yr limited warranty. 17 x 6⅝ x 16½ in; 46 lb $2,700

TA-N55ES 110-W/ch Amplifier
2 channels. 110 W x 2 into 8 ohms with 0.004% THD, 150 x 2 into 4 ohms with 0.006% THD, or 300 x 1 into 8 ohms with 0.007% THD. Discrete output transistors; parallel push-pull output stage with 4 transistors per channel; thermal and short-circuit protection. Fixed and variable inputs; mono input/output; parallel A/B speaker terminals. Gain control; A/B speaker switching. Slew rate 120 V/µs; damping factor 100 into 8 ohms at 1 kHz; dynamic headroom 2.8 dB. 5-yr limited warranty. 17 x 6 x 14½ in; 27 lb $580

TA-N220 180-W Amplifier
4 channels. 45 W x 4 with 0.015% THD, 100 x 1 + 45 x 2 with 0.1% THD, or 100 x 2 with 0.1% THD, all into 8 ohms from 20 Hz-20 kHz. Variable line-level-gain and bridging controls; front-panel status indicators. Dynamic headroom 2.3 dB. 17 x 5⅜ x 14⅝ in; 20 lb $400

SOUNDOLIER

THP-CXB 100-W Mono Amplifier
1 channel. Designed for subwoofers. 100 W into 4 or 8 ohms. Class AB design; active crossover; short-circuit protection;. 17 x 4⅛ x 12¾ in ...$574

SOUNDSTREAM

RA100 MkIII 50-W/ch Multizone Amplifier
2 channels. Designed for one zone in multiroom system with SN1 controller. 50 W x 2 into 4 ohms from 20 Hz-20 kHz –0.5 dB with 0.1% THD. 1-ohm stability. Outputs for 4 speaker pairs; variable line-level outputs; input for local audio source; signal-processor loop. Remote volume and balance controls. Wall or shelf mountable. 9 x 1¼ x 14 in; 5 lb $595

SOUND VALVES

M60i 60-W Tube Mono Amplifier
1 channel. 60 W into 2, 4, or 8 ohms from 20 Hz-20 kHz with 0.5% THD; 30 W triode operation. Class AB1 operation; machined aluminum face; regulated soft-start power supply; ground lift; one 12AT7/6201, one 12AU7/5963, and two 6550C vacuum tubes. Gold-plated RCA connectors and binding posts. Visual bias indicator. S/N 100 dB. 3-yr limited parts-and-labor warranty. 9½ x 7½ x 12 in; 32 lb $2,599/pr

VTA-70i 35-W/ch Tube Amplifier
2 channels. 35 W x 2 or 70 W x 1 into 8 ohms at 1 kHz with 0.25% THD. Class AB1 operation; machined aluminum face; four matched EL34/6CA7 and two 6GH8A tubes. Gold-plated RCA connectors and binding posts. Visual bias indicator. FR 10 Hz-45 kHz –3 dB; S/N 80 dB. 3-yr limited parts-and-labor warranty. 13 x 7 x 9½ in; 32 lb ...$1,099
Kit version $899

SV-250 130-W/ch Amplifier
2 channels. 130 W x 2 into 4 ohms or 130 x 2 into 8 ohms from 20 Hz-20 kHz with 0.03% THD. Class AB output operation; extruded aluminum sculpted faceplate; MOSFET operation. Slew rate 30 V/µs $699

SUNFIRE

Cinema Grand 1,000-W Amplifier
5 channels. Designed for impedance loads as low as 1 ohm. 200 W x 5 into 8 ohms or 400 x 5 into 4 ohms. Crystal base with damping supports for vibration isolation. XLR inputs. Auto-on; power-supply energy meter on front panel. 5-yr warranty. 19 x 6½ x 15¾ in; 44 lb $2,375

Sunfire 300-W/ch Amplifier
2 channels. Designed to drive any impedance load. 300 W x 2 into 8 ohms, 600 x 2 into 4 ohms, 1,200 x 2 into 2 ohms, or 2,400 x 2 into 1 ohm. Crystal base with damping supports for vibration isolation. Power-supply energy meter on front-panel. 19 x 6½ x 15¾ in; 43 lb $2,175

SUTHERLAND

A-2000 100-W Mono Amplifier
1 channel. 100 W. All-MOSFET signal path; output protection outside the signal path for unrestricted dynamics; comprehensive power-supply monitoring mutes the audio signal during power-up, power-down or line voltage brown-outs.. Machined-aluminum and clear anodized case. 9⅜ x 5¼ x 26 in; 17 lb $12,000/pr

SYMPHONIC LINE

Kraft Reference 400 500-W Mono Amplifier
1 channel. 500 W into 8 ohms or 1,000 x 1 into 4 ohms. Class A operation. RCA and XLR inputs and outputs. FR 1 Hz-1,000 kHz; damping factor 1,600. 8-yr warranty. 24 x 14 x 30 in $36,000/pr

Kraft Reference 250 280-W Mono Amplifier
1 channel. 280 W into 4 ohms or 550 W into 8 ohms. Class A operation. RCA and XLR inputs and outputs. FR 1 Hz-700 kHz; damping factor 1,200. 8-yr warranty. 24 x 14 x 15 in; 105 lb ...$18,500/pr

Kraft Reference 250 280-W/ch Amplifier
2 channels. 280 W x 2 into 8 ohms or 550 x 2 into 4 ohms. Class A operation. RCA and XLR inputs and outputs. FR 1 Hz-700 kHz; damping factor 1,200. 8-yr warranty. 24 x 14 x 15 in; 120 lb $12,500

M 300 200-W Mono Amplifier
1 channel. 200 W into 8 ohms or 400 into 4 ohms. Class A/AB operation; internal protection circuits. RCA and XLR inputs and outputs. FR 1 Hz-500 kHz; damping factor 1,000. 5-yr warranty. 19 x 7 x 16 in $8,500/pr

S 200 150-W/ch Amplifier
2 channels. 150 W x 2 into 8 ohms or 300 W x 2 into 4 ohms. Dual-mono design; Class A/AB operation; internal protection circuits. RCA and XLR inputs and outputs. FR 2 Hz-450 kHz; damping factor 1,000. 5-yr warranty. 19 x 7 x 16 in; 75 lb ...$4,295

TANDBERG

TPA 4147 360-W Amplifier
3 channels. 120 W rms x 3 into 8 ohms. FR 20-20,000 Hz +0, –1 dB; S/N 90 dBA. 28 lb ...$1,599

TPA 4036 100-W/ch Amplifier
2 channels. 100 W rms x 2 into 8 ohms or 160 x 2 into 4 ohms. Zero-negative-feedback design; local error-correction circuitry in the output stage. FR 20 Hz-20 kHz +0, –1 dB; S/N 90 dBA. 17⅛ x 3¼ x 15 in; 22 lb $1,499

TPA 4146 120-W/ch Amplifier
2 channels. 120 W rms x 2 into 8 ohms. FR 20-20,000 Hz +0, –1 dB; S/N 90 dBA. 22 lb ...$1,299

TAURUS AUDIO

Model 300B 25-W/ch Tube Amplifier
2 channels. 25 W x 2. One 12AX7, two 6N8P, and four 300B tubes; stainless steel chassis. Gold-plated RCA input. Ultralinear push-pull circuit; detachable AC power cord. Cover-grid optional. FR 10 Hz-50 kHz ±1.5 dB; THD 1%; S/N 85 dB. 15¾ x 10½ x 9¾ in; 33 lb $1,800

Model 120S 70-W/ch Tube Amplifier
2 channels. 70 W x 2. One 12AX7, two 6N8P, and four KT88 tubes; fully symmetrical output transformer; stainless-steel chassis. Gold-plated RCA input. Ultralinear push-pull circuit; detachable AC power cord. FR 10 Hz-50 kHz ±1.5 dB; THD 1%; S/N 90 dB. 15¾ x 11 x 9¾ in; 40 lb $1,400

Model 70Mk3 50-W/ch Tube Amplifier
2 channels. 50 W x 2. One 12AX7, two 6N8P, and four EL 34 tubes; stainless-steel chassis. Gold-

output. Bridgeable mono. Silver with black trimming. 5-yr warranty. 250 lb $15,000

CA-400 400-W/ch Amplifier
2 channels. 400 W x 2 from 20 Hz-20 kHz with 0.004% THD into 8 ohms. Class AB. RCA and XLR inputs. S/N 137 dB. Black or silver faceplate. 5-yr warranty. 19 x 9½ x 23 in; 120 lb $5,500

CA-300 300-W/ch Amplifier
2 channels. 300 W x 2 from 20 Hz-20 kHz with 0.007% THD into 8 ohms. RCA and XLR inputs. S/N 135 dB. Black or silver faceplate. 5-yr warranty. 19 x 8½ x 21 in; 85 lb $4,250

CAV-150 900-W Amplifier
6 channels. 150 W x 6 from 20 Hz-20 kHz with 0.004% THD into 8 ohms, 300 W + 150 W x 4, 300 W x 2 + 150 W x 2, or 300 W x 3. Power configuration via external switches. 6 RCA inputs; 2 XLR inputs. Bridgeable in any power configuration. S/N 135 dB. Black or silver faceplate. 5-yr warranty. 19 x 6¾ x 21½ in; 70 lb $3,595

CA-200 200-W/ch Amplifier
2 channels. 200 W x 2 from 20 Hz-20 kHz with 0.004% THD into 8 ohms. RCA and XLR inputs. S/N 135 dB. Black or silver faceplate. 19 x 7¾ x 18½ in; 60 lb $2,995

CA-150 150-W/ch Amplifier
2 channels. 150 W x 2 from 20 Hz-20 kHz with 0.006% THD into 8 ohms. Class AB operation. RCA and XLR inputs. S/N 132 dB. Black or silver faceplate. 5-yr warranty. 19 x 7 x 16½ in; 47 lb ...$2,295

CAV-75 450-W Amplifier
6 channels. 75 W x 6 from 20 Hz-20 kHz with 0.004% THD into 8 ohms, 150 x 1 + 75 W x 4, 150 x 2 + 75 W x 2, or 150 W x 3. 6 RCA inputs. S/N 135 dB. 5-yr warranty. 19 x 5½ x 15 in; 40 lb ...$1,995

CA-100 100-W/ch Amplifier
2 channels. 100 W x 2 or 350 x 1 into 8 ohms; 200 x 2 or 600 x 1 into 4 ohms. RCA and XLR inputs. FR 20 Hz-20 kHz –0.1 dB; S/N 128 dB. Black or silver faceplate. 5-yr warranty. 19 x 5½ x 14¼ in; 35 lb $1,495

CLAYTON AUDIO

M-70 70-W Mono Amplifier
1 channel. 70 W rms into 8 ohms or 140 x 1 rms into 4 ohms, both from 5 Hz-20 kHz with 0.1% THD. Class A design; thermal protection. RCA input; 4-way binding posts. Power-on sequence control; bias switch; LED power and fault indicators. 3-yr warranty. 9¼ x 20 x 9 in; 45 lb $5,600/pr
Clayton Power Cord. 2-m power cord for M-70 or S-40 .....$300

S-40 40-W/ch Amplifier
2 channels. 40 W x 2 rms into 8 ohms or 80 x 2 into 4 ohms, both from 5 Hz-20 kHz with 0.1% THD. Pure Class A design; thermal control. RCA input; 4-way binding posts. Power-on sequence control. 3-yr warranty. 9¼ x 20 x 9 in; 48 lb $2,950

CODA

Model 200 200-W/ch Amplifier
2 channels. 200 W x 2, 200 x 1 split-channel mono, or 800 x 1, all into 8 ohms from 20 Hz-20 kHz. Independently regulated power supply; precision bias with Class A operation; FET input with bipolar current gain; no overall feedback; DC-coupled design; independent rectification and supply capacitors for each channel; anodized chassis; gold-plated circuit boards; selectable loading between balanced and unbalanced input connectors. THD 0.1% at 200 W into 1 to 8 ohms; S/N 100 dB; slew rate 50 V/µs. 10-yr warranty. Gain unit 19 x 2½ x 9¾ in; each amp 19 x 8 x 19 inch; 135 lb $12,950

Model 100 100-W/ch Amplifier
2 channels. 100 W x 2 or 400 x 1, both into 8 ohms from 20 Hz-20 kHz. Separate voltage and current amps; Class A operation; FET input with bipolar current gain; no overall feedback; DC-coupled design; independent rectification and supply capacitors for each channel; gold circuit boards; anodized chassis. XLR and RCA inputs. Slew rate 50 V/µs. 10-yr warranty $6,950

Model 20.5 200-W/ch Amplifier
2 channels. 200 W x 2 or 800 x 1, both from 20 Hz-20 kHz into 8 ohms. Class A/AB operation with Class A up to 50 W rms; FET input with bipolar current gain; no overall feedback; DC-coupled design; independent rectification and supply capacitors for each channel; gold-plated circuit boards; anodized chassis. XLR and RCA inputs. Slew rate 50 V/µs. 10-yr warranty. 19 x 7 x 19 in $5,250
Model 11.5. As above, 100 W x 2 or 400 x 1. Class A; no Class AB $5,250
Model 10.5. As Model 20.5, 100 W x 2 or 400 x 1. 19 x 5¼ x 12½ in $2,950

V10 400-W Amplifier
4 channels. 100 W x 4, 100 x 2 + 400 x 1, or 400 x 2, all into 8 ohms from 20 Hz-20 kHz, with THD 0.1% at 100 into 2 to 8 ohms. Class A/AB operation with Class A operation to 8 W rms into 8 ohms; FET input with bipolar current gain; no overall feedback; DC-coupled design; gold-plated circuit boards. XLR and RCA inputs. S/N 100 dB; slew rate 50 V/µs. 10-yr warranty $3,150

CONRAD-JOHNSON

Premier Eight-A 275-W Tube Mono Amplifier
1 channel. 275 W. Proprietary output transformers with small-signal bypass beyond 500 kHz. LED bias indicators. 19 x 9½ x 20 in; 85 lb $8,495
Premier Twelve. As above, 140 x 1. 17½ x 7¼ x 15¼ in; 54 lb $3,495
Premier Eleven-A. 2-channel, 70 W x 2 ...$3,495

Premier 300SA 300-W/ch Amplifier
2 channels. 300 W x 2 rms into 8 ohms with 1% THD. JFET input stage; Class AB output stage; low-feedback design. RCA input jacks; 5-way binding posts for speaker connections. Brushed-aluminum champagne-gold panel. 3-yr warranty $6,995

MF2500 225-W/ch Amplifier
2 channels. 225 W x 2 rms into 8 ohms with 1% THD. JFET input stage; class AB output stage; low-feedback design. Single-ended RCA input jacks; 5-way binding posts for speaker connections. Brushed-aluminum champagne-gold panel. 3-yr warranty. 55 lb $3,495

MF2250 125-W/ch Amplifier
2 channels. 125 W x 2 rms into 8 ohms with 1% THD. JFET input stage; Class AB design; low-feedback design. Single-ended RCA input jacks; 5-way binding posts for speaker connections. Brushed-aluminum champagne-gold panel. 3-yr warranty. 45 lb $2,395

MV55 45-W/ch Tube Amplifier
2 channels. 45 W x 2 ultralinear mode or 25 x 2 triode mode. Two EL34 output tubes per channel. LED bias indicators. 17⅝ x 7 x 12½ in; 39 lb $1,995

CONTINUUM

Model 4-3-2 400-W Amplifier
4 channels. 100 W x 4, 100 x 2 + 400 x 1, or 400 x 2 into 8 ohms from 20 Hz-20 kHz. Class A/AB with pure Class A at low levels; no overall feedback; independent dual transformer rectification. Channel-status indicators. Slew rate 50 V/µs. 5-yr limited warranty. 17 x 5½ x 14 in; 45 lb $1,895

Continuum Audio Stage 200-W/ch Amplifier
2 channels. 200 W x 2 into 8 ohms or 400 W x 2 into 4 ohms from 20 Hz-20 kHz with 0.01% THD. Class A/AB with pure Class A at low levels; FET differential input with wideband bipolar transistor outputs; independent dual transformer rectification. Choice of AC coupled RCA input or DC-XLR input. S/N 100 dB; slew rate 50 V/µs. 5-yr limited warranty. 16¾ x 6 x 14 in $1,795

CREEK

A52SE 80-W/ch Amplifier
2 channels. 80 W x 2 into 8 ohms from 20 Hz-20 kHz with 0.03% THD or 240 x 1. Fully balanced FET input circuitry. 1 input; 2 outputs. Adjustable low-frequency roll-off to tune system sound; 2-zone speaker switching. S/N 105 dB; slew rate 60 V/µs. Black. 16½ x 2 x 11 in; 17 lb $1,095
A52. As above, 70 W x 2 or 180 x 1. 16½ x 2 x 11 in; 13 lb $895

A43 50-W/ch Amplifier
2 channels. 50 W x 2 into 8 ohms from 20 Hz-20 kHz with 0.03% THD or 100 W x 1 into 4 ohms. Bipolar input stage; proprietary voltage and current source; MOSFET output stage. 16½ x 2½ x 9 in; 12 lb ...$695

CREST

The following feature channel attenuators, protection circuitry, an active clipping limiter, a 2-speed fan, stereo/bridged mono mode select switch, TRS and barrier-strip inputs, and 5-way binding post outputs.

V1500 400-W/ch Amplifier
2 channels. 400 W x 2 or 1,500 x 1 into 8 ohms; 750 x 2 or 2,000 x 1 into 4 ohms; 1,000 x 2 into 2 ohms. FR 10 Hz-65 kHz; THD 0.1%; S/N 105 dB; slew rate 60 V/µs; damping factor 1,000 at 100 Hz. 19 x 5¼ x 13¼ in; 42 lb $1,390

V1100 300-W/ch Amplifier
2 channels. 300 W x 2 or 1,100 x 1 into 8 ohms; 550 x 2 or 1,400 x 1 into 4 ohms; 700 x 2 into 2 ohms. FR 10 Hz-65 kHz; THD 0.1%; S/N 105 dB; slew rate 40 V/µs; damping factor 1,000 at 100 Hz. 19 x 5¼ x 13¼ in; 41 lb $1,160

V900 250-W/ch Amplifier
2 channels. 250 W x 2 or 900 x 1 into 8 ohms; 450 x 2 or 1,100 x 1 into 4 ohms; 550 x 2 into 2 ohms. FR 10 Hz-65 kHz; THD 0.1%; S/N 105 dB; slew rate 40 V/µs; damping factor 1,000 at 100 Hz. 19 x 5¼ x 12 in; 36 lb $900

V650 200-W/ch Amplifier
2 channels. 200 W x 2 or 650 x 1 into 8 ohms; 325 x 2 or 850 x 1 into 4 ohms; 425 x 2 into 2 ohms. FR 10 Hz-65 kHz; THD 0.1%; S/N 105 dB; slew rate 40 V/µs; damping factor 800 at 100 Hz. 19 x 5¼ x 12 in; 33 lb $780

V450 150-W/ch Amplifier
2 channels. 150 W x 2 or 450 x 1 into 8 ohms; 225 x 2 or 650 x 1 into 4 ohms; 325 x 2 into 2 ohms. FR 10 Hz-65 kHz; THD 0.1%; S/N 105 dB; slew rate 40 V/µs; damping factor 700 at 100 Hz. 19 x 5¼ x 12 in; 33 lb $660

CROWN INTERNATIONAL

Reference Series
REF 1 780-W/ch Amplifier
2 channels. 780 W x 2 into 8 ohms or 1,160 x 2 into 4 ohms, or 2,220 x 1 into 8 ohms, all at 0.1% THD. Grounded-bridge output topology; input/output comparator circuitry; soft-start circuitry; cooling fan. Two XLR phone jacks; two XLR connectors for signal-processor modules; two sets of color-coded 5-way binding posts per channel. Front-panel enable switch; front-panel precision 31-step detented level controls for each channel; stereo/bridge mono/ parallel mono switch; ground-lift switch; reset switch; dynamic range/level meter. Signal processing modules optional. S/N 120 dBA; ch sep 100 dB; dynamic headroom 2 dB. Gloss-black finish. 3-yr warranty. 19 x 7 x 16 in; 60 lb $3,950
REF 2. As above, 355 W x 2 into 8 ohms, 550 x 2 into 4 ohms, or 1,1100 x 1 into 8 ohms. S/N 117 dB. 19 x 7 x 16 in; 56 lb $2,750

Power Amplifiers

K Series

K2 475-W/ch Amplifier
2 channels. 475 W x 2 into 8 ohms, 800 x 2 into 4 ohms, 1,250 x 2 into 2 ohms, 1,600 x 1 into 8 ohms, or 2,500 x 1 into 4 ohms, all with 0.1% THD. Patented circuit design reduces heat generation. Phone-plug and XLR connectors for each channel; 5-way dual binding posts. Calibrated detented level controls; LED display. S/N 100 dBA; dynamic headroom 1 dB. Black-powder coat. 3-yr warranty. 19 x 3½ x 16 in; 38 lb $1,795
K1. As above, 350 W x 2 into 8 ohms, 550 x 2 into 4 ohms, 750 x 2 into 2 ohms, 1,100 x 1 into 8 ohms, or 1,500 x 1 into 4 ohms, all with 0.1% THD. 32 lb $1,495

DB SYSTEMS

DB-6A 40-W/ch Amplifier
2 channels. 40 W x 2 rms into 8 ohms with 0.003% THD or 60 x 2 rms into 4 ohms with 0.01% THD, both from 20 Hz-20 kHz. 12-dB/oct Butterworth subsonic filter; speaker-protection fuses. Gold-plated connectors. LED clipping indicators. Rack-mount optional. Slew rate 15 V/µs; damping factor 400 from 20 Hz-1 kHz. 5-yr transferable warranty. 16 x 5 x 12⅞ in; 18 lb $910
DB-6A-M. As above, mono. 140 W cont into 8 ohms with 0.008% THD or 225 x 1 cont into 4 ohms with 0.02% THD, both from 20 Hz-20 kHz. Slew rate 30 V/µs; damping factor 200 from 20 Hz-1 kHz $910

DENON

POA-S1 250-W Mono Amplifier
1 channel. 250 W into 8 ohms from 20 Hz-20 kHz with 0.05% THD, 500 x 1 into 4 ohms, 1,000 x 1 into 2 ohms, or 1,400 x 1 into 1 ohm. UHC-MOS high-current amplification device combining sound quality of MOSFETS and power capability of bipolar transistors; single push-pull current circuit; inverted Sigma balance circuit for signal purity; direct mechanical ground; aluminum sand-cast frame. RCA input; XLR input; gold-plated speaker binding posts. S/N 120 dB. Champagne-gold front panel and chassis cover. 19 x 10¾ x 27 in; 175 lb $20,000

POA-8300 360-W THX Amplifier
3 channels. 120 W x 3 into 8 ohms from 20 Hz-20 kHz with 0.02% THD or 200 W x 3 into 4 ohms with 0.5% THD at 1 kHz. THX-certified. 3 RCA input jacks; 3 sets of binding-post speaker connectors with biwiring. S/N 110 dB. Black front panel and chassis cover. 17⅛ x 5¼ x 14 in; 35 lb $1,499
POA-8200. As above, 120 W x 2 into 8 ohms from 20 Hz-20 kHz; 27 lb $999

DON J. COCHRAN

Delta Mode II 200-W Mono Amplifier
1 channel. 200 W cont into 4 or 8 ohms with 0.07% THD. Vacuum-tube or solid-state voltage-amp section; differential signal-path topology; balanced-bridge output; separate power supplies for voltage- and current-amp sections; input isolation with voltage-follower buffers; OFC signal and DC-power wiring; aluminum case; fuse speaker-load protection; thermal protection. RCA, XLR, and screw-type inputs. 5-position XLR attenuator for gain setting. Rack-mount assembled-pair configuration optional. S/N 100 dB; slew rate 65 V/µs. 8½ x 5¼ x 14⅝ in; 29 lb $6,800/pr

DPA DIGITAL

DPA 200S 100-W/ch Amplifier
2 channels. 100 W x 2 or 200 x 1, both into 8 ohms. High-gain bandwidth topology; high RF immunity; Class A operation $1,460

EDGE

The following feature gold-plated binding post outputs, and use only N-channel output transistors for tolerances of under 1%.

Signature One 400-W/ch Amplifier
2 channels. 400 W x 2 into 8 ohms. Two power, two output chassis. 350 lb $25,000

M12 300-W/ch Amplifier
2 channels. 300 W x 2 into 8 ohms or 600 x 2 into 4 ohms. FR 2 Hz-100 kHz; THD 0.002%; slew rate 150 V/µs; dynamic headroom 8 dB. 175 lb $13,600

M10 220-W/ch Amplifier
2 channels. 220 W x 2 into 8 ohms or 440 x 2 into 4 ohms. FR 2 Hz-100 kHz; THD 0.002%; slew rate 150 V/µs; dynamic headroom 5 dB. 140 lb $8,350

M8 170-W/ch Amplifier
2 channels. 170 W x 2 into 8 ohms or 340 x 2 into 4 ohms. FR 2 Hz-100 kHz; THD 0.002%; slew rate 150 V/µs; dynamic headroom 5 dB. 69 lb ...$4,150

M6 120-W/ch Amplifier
2 channels. 120 W x 2 into 8 ohms or 240 x 2 into 4 ohms. FR 2 Hz-100 kHz; THD 0.002%; slew rate 150 V/µs; dynamic headroom 5 dB. 57 lb ...$2,565

M4 70-W/ch Amplifier
2 channels. 70 W x 2 into 8 ohms or 140 x 2 into 4 ohms. FR 2 Hz-100 kHz; THD 0.002%; slew rate 150 V/µs; dynamic headroom 3 dB. 44 lb ...$1,550

AV5 375-W Amplifier
5 channels. 75 W x 5 into 8 ohms or 130 x 5 into 4 ohms, both with 0.02% THD. Slew rate 80 V/µs; dynamic headroom 1.2 dB $1,250
AV3. As above, 75 W x 3 into 8 ohms or 130 x 3 into 4 ohms $899
AV2. As above, 75 W x 2 into 8 ohms or 130 x 2 into 4 ohms $750

FENTON AUDIO

Steoreobate II 300-W Mono Amplifier
1 channel. 300 W cont into 8 ohms or 600 W x 1 cont into 4 ohms. Water cooled; optical isolation; Class A/AB output operation. XLR inputs; RCA inputs. Auto-on. THD 0.022%; slew rate 100 V/µs. Architectural concrete. 25 x 5 x 25 in; 105 lb $2,300/pr

GOLDEN THEATER

GTA-1 750-W Amplifier
5 channels. 150 W x 5 rms into 8 ohms from 20 Hz-20 kHz with 0.06% THD. 5 gold-plated RCA inputs; 5-way binding posts. Adjustable gain on each channel. Black brush-finished ⅜-in aluminum front panel. 17 x 6 x 15 in; 70 lb $1,995

GOLDEN TUBE AUDIO

SE-300B MkII 9-W/ch Tube Amplifier
2 channels. 9 W x 2 into 8 ohms. Gold-plated RCA inputs; XLR input (mono mode only); gold-plated 5-way speaker binding posts. Adjustable feedback; external mono switch; external bias adjustment and measurement terminals. FR 20 Hz-20 kHz; THD 5%. 3-yr warranty. 17 x 8 x 14 in; 45 lb $1,748
Special Edition. As above with oil caps $1,998

SE-40 40-W/ch Tube Amplifier
2 channels. 40 W x 2 into 8 ohms. Single-ended parallel design; higher gain mode for CD-direct/passive preamp; Class A design. FR 20 Hz-20 kHz; THD 5%. 45 lb $998
Tube cover cage $100
Special Edition. As SE-40, upgraded with larger output transformers. 55 lb $1,398

HAFLER

Trans-Nova Series

Model 9505 250-W/ch Amplifier
2 channels. 250 W x 2 into 8 ohms, 375 x 2 into 4 ohms, or 750 x 1 into 8 ohms. JFET double-differential front end; MOSFET output stage. XLR and RCA inputs. THD 0.005% at 1 kHz into 8 ohms; S/N 100 dBA; slew rate 150 V/µs; damping factor. 7-yr warranty. 19 x 5¼ x 12½ in; 50 lb $2,200

P7000 350-W/ch Amplifier
2 channels. 350 W x 2 into 8 ohms, 500 x 2 into 4 ohms, or 1,000 x 1 into 8 ohms. Fan cooling; lateral MOSFET; biamp mode with 4th-order crossovers; THX-certified. 2-way XLR and phone inputs. 7-yr warranty. 19 x 3½ x 13 in; 40 lb $1,399

P4000 200-W/ch Amplifier
2 channels. 200 W x 2 into 8 ohms, 275 x 2 into 4 ohms, or 550 x 1 into 8 ohms. Convection cooled; lateral MOSFET. XLR and phone inputs; 5-way binding posts. FR 20 Hz-20 kHz ±0.1 dB; THD 0.01% at 1,000 Hz; slew rate 100 V/µs. 19 x 5¼ x 11 in; 34 lb $999

P3000 150-W/ch Amplifier
2 channels. 150 W x 2 into 8 ohms, 200 x 2 into 4 ohms, or 400 x 1 into 8 ohms. Independent channel overload protection and thermal standby; lateral MOSFET output devices; 16-gauge cold-rolled steel chassis; convection cooling; electronic fuses; MOSFET output stage. XLR inputs; 5-way binding posts. Chassis/float ground switch; gain controls in increments of 1 dB; LED indicators for clip, signal-presence, thermal protection, and channel overload. THD 0.01% at 1 kHz into 8 ohms; S/N 100 dBA; slew rate 100 V/µs; damping factor 400 at 1 kHz. 5-yr warranty. 19 x 3½ x 9⅞ in; 23 lb $779

P1500 75-W/ch Amplifier
2 channels. 75 W x 2 into 8 ohms, 85 x 2 into 4 ohms, or 170 x 1 into 8 ohms. Independent channel overload protection and thermal standby; lateral MOSFET output devices; 16-gauge cold-rolled steel chassis; convection cooling; electronic fuses. XLR inputs; 5-way binding posts. Chassis/float ground switch; gain controls in increments of 1 dB; LED indicators for clip, signal, presence, thermal protection and channel overload. FR 20 Hz-20 kHz; THD 0.01% at 1 kHz into 8 ohms; S/N 100 dBA; slew rate 100 V/µs; damping factor 350 at 1 kHz. 5-yr warranty. 19 x 3½ x 8½ in; 22 lb ...$599

P1000 50-W/ch Amplifier
2 channels. 50 W x 2 into 8 ohms, 55 x 2 into 4 ohms, or 110 x 1 into 8 ohms. 2-way XLR and phone inputs; screw terminal outputs; headphone output. FR 20 Hz-20 kHz ±0.1 dB; THD 0.2%; S/N 100 dB; slew rate 20 V/µs; damping factor 900 at 1 kHz. 5-yr warranty. 19 x 8⅜ x 1¾ in; 12 lb ...$569

HARMAN KARDON

Signature 2.1 500-W Amplifier
5 channels. 100 W x 5 into 8 ohms or 150 x 5 into 4 ohms, both from 20 Hz-20 kHz with 0.03% THD. 5 RCA inputs; 5-way output binding posts. Auto turn-on. S/N 100 dB; ch sep 90 dB. Black anodized aluminum. 17⅜ x 7½ x 15½ in; 47 lb $1,499

Signature 1.5 200-W/ch Amplifier
2 channels. 200 W x 2 into 8 ohms, 350 x 2 into 4 ohms or 700 x 1 into 4 ohms, all from 20 Hz-20 kHz at 0.03% THD. Class AB operation. 2 RCA inputs; binding posts. Auto turn-on. S/N 100 dB; ch sep 85 dB; dynamic headroom 1.6 dB. Black anodized aluminum. 17⅜ x 7½ x 15½ in $1,399

PA5800 400-W Amplifier
5 channels. 80 W x 5 into 8 ohms or 110 x 5 into 4 ohms, both from 20 Hz-20 kHz with 0.03% THD. 5 RCA inputs; 5-channel output binding posts. Auto turn-on. S/N 100 dBA; ch sep 80 dB. Black matte finish. 17⅜ x 6⅛ x 15½ in; 30 lb $999

HARMONIC PRECISION

HP-150 Mono 100-W Mono Amplifier
1 channel. 100 W into 8 ohms from 5 Hz-50 kHz with 0.09% THD. Class A and AB MOSFET operation; bipolar input stage. All-metal gold-plated binding posts. LED indicator; power switch. Includes Natural Chord Power Chord 14 and 4 1.0AP-F Audio Points. S/N 90 dBA; slew rate 25 V/µs; damping factor 85; dynamic headroom 2.4 dB. Black anodized face with black-wrinkle finish

and cabinet. 17 x 4½ x 16 in; 31 lb $1,600/pr
HP-150. As above, stereo version. 75 W x 2. 17 x 4½ x 16 in; 31 lb $895

INTERACTIVE LABS

Fatboy 1,000-W Amplifier
5 channels. 200 W x 5 into 4 or 8 ohms from 20 Hz-20 kHz with 0.01% THD. Class AB monoblock design; HEXFET output stages; fan cooled; input-level adjustment for each channel. 5 gold-plated RCA line-level audio inputs; 5 gold-plated five-way binding-post speaker outputs; 2 mini jacks; 1 DC input control; 1 DC output control. Auto or manual power-on/off control; current-sense outlet for auto-on/off; LED display for each channel; selectable on/off/dim. 110 VAC/220 VAC versions optional. S/N 100 dB; ch sep 100 dB. Black-anodized brushed aluminum with polished brass accents. 5-yr warranty. 17 x 5¼ x 15½ in; 45 lb $1,999
RMK 525. Rackmount kit for above; also available for Junior and Little Boy $30

Junior 1,000-W Amplifier
5 channels. 200 W x 5 into 4 or 8 ohms from 20 Hz-20 kHz with 0.01% THD. Class AB monoblock design; HEXFET output stages; fan cooled; input-level adjustment for each channel. 5 gold-plated RCA line-level audio inputs; 5 gold-plated five-way binding-post speaker outputs. 110 VAC/220 VAC versions optional. S/N 100 dB. Black-anodized brushed aluminum with chrome accents. 5-yr warranty. 17 x 5¼ x 15½ in; 42 lb $1,599
DC voltage input and output control $100

Little Boy 600-W Amplifier
3 channels. 200 W x 3 into 4 or 8 ohms from 20 Hz-20 kHz with 0.01% THD. Class AB monoblock design; HEXFET output stages; fan cooled; input-level adjustment for each channel. 3 gold-plated RCA line-level audio inputs; 3 gold-plated five-way binding post speaker outputs; 2 mini jacks; 1 DC input control; 1 DC output control. Auto or manual power-on/off control; current-sense outlet for auto-on/off; LED display for each channel; selectable on/off. 110 VAC/220 VAC versions optional. S/N 100 dB; ch sep 100 dB. Black-anodized brushed aluminum with polished brass accents. 5-yr warranty. 17 x 5¼ x 15½ in; 38 lb $1,199

JANIS

Interphase 1A 125-W Mono Amplifier
1 channel. Designed for subwoofers. 125 W into 8 ohms from 20 Hz-10 kHz with 0.02% THD or 200 x 1 into 4 ohms from 20 Hz-10 kHz with 0.025% THD. 2-channel electronic crossover at 100 Hz with 18 dB/oct Butterworth filters; summed bass output with both line-out and power-amp outputs. Two inputs; 2 high-pass outputs; 1 low-pass output. Continuous phase and level controls for low-pass output; continuous bass level and phase; wire-bypass compare switch for subwoofer integration. S/N 90 dB. Black. 14 x 3½ x 14 in; 30 lb $950
Interphase 3AT. As above, 70 W rms $750

JBL

S650 650-W THX Amplifier
5 channels. 130 W x 5 into 8 ohms or 200 x 5 into 4 ohms, both from 20 Hz-20 kHz with 0.03% THD. THX-certified; forced-air cooling. Remote turn-on. 19 x 7 x 16 in; 75 lb $2,850

S400 200-W/ch THX Amplifier
2 channels. 200 W x 2 into 4 ohms or 400 W into 8 ohms, both from 20 Hz-20 kHz with 0.02% THD. THX-certified. Remote turn-on. 19 x 5¼ x 16 in; 30 lb $1,750

JEFF ROWLAND DESIGN GROUP

Model 9Ti 350-W Mono Amplifier
1 channel. 350 W into 8 ohms, 700 x 1 into 4 ohms, or 900 x 1 into 2 ohms. Separate power supply; full differential trans-impedance circuitry from input to output; aluminum chassis. 2 RCA and 2 XLR inputs; binding posts for 2 speaker pairs. Controls for gain, input impedance, and absolute phase. BPS-9 DC power supply optional. 17½ x 11⅜ x 22 in; 90 lb. Power supply 17½ x 11⅜ x 22 in; 135 lb $32,000/pr

Model 8T 250-W/ch Amplifier
2 channels. 250 W x 2 into 8 ohms, 400 x 2 into 4 ohms, or 600 x 2 into 2 ohms. BPS-8 DC power supply; full differential trans-impedance circuitry from input to output; aluminum chassis. RCA and XLR inputs. Controls for gain, input impedance, and absolute phase; input mute and phase switches. 17½ x 11⅜ x 22 in; 125 lb $18,700
With dual-mono power supply $13,900

Model 6 150-W Mono Amplifier
1 channel. 150 W into 8 ohms, 250 x 1 into 4 ohms, or 350 x 1 into 2 ohms. BPS-6 DC power supply; full differential trans-impedance circuitry from input to output; aluminum chassis. Adjustable gain and input impedance. 17½ x 5¼ x 14¼ in; 45 lb ...$16,000/pr
With dual-mono power supply $10,800/pr

MC-6 900-W Amplifier
6 channels. 150 W x 6 or 200 x 4, both into 8 ohms from 20 Hz-20 kHz with 0.008% THD. Biampable and triampable stereo-system configurations. XLR and RCA inputs for each channel. S/N 105 dBA; ch sep 90 dB; slew rate 25 V/µs; damping factor 60. 5-yr warranty. 17½ x 11⅜ x 22 in; 130 lb $15,800

Model 2 75-W/ch Amplifier
2 channels. 75 W x 2 into 8 ohms or 125 x 2 into 4 ohms. BPS-2 DC power supply; full differential trans-impedance circuitry from input to output; aluminum chassis. Adjustable gain and input impedance $8,400
With dual-mono power supply $5,800

JOULE ELECTRA

VZN-100 Marquis 100-W Tube Mono Amplifier
1 channel. 100 W into 8 ohms or 80 x 1 into 4 ohms. Six 6C33CB triode tubes for output; two 6350 dual triode tubes for driver; three 12AX7 dual triode tubes; 2 regulated filament supplies; 1 regulated driver B+ supply; 2 floating driver bias supplies; single-ended asymmetrical Class A, OTL design; individual adjustment for each triode output tube $8,800/pr
VZN-160 Grand Marquis. As above with 8 6C33CB triode output tubes per monoblock. 160 W x 1 into 8 ohms or 100 x 1 into 4 ohms $11,000/pr
VZN-80 Emerald. As above, 80 W x 1 into 8 ohms or 60 W x 1 into 4 ohms $6,600

JRM ENGINEERING

Power Tower 540-W Amplifier
4 channels. 200 W x 2 + 70 x 2 into 8 ohms, 350 x 2 + 175 x 2 into 4 ohms or 500 x 2 + 250 x 2 into 2 ohms. Complementary all-cascode Class AB design; thermal, DC/clip, and power-up/fail protection. Peak/avg LED level meters. FR 0.6 Hz-75 kHz; THD 0.02%; S/N 102 dB; slew rate 100 V/µs. 24½ x 16 x 14½ in; 65 lb $4,860

KAB ELECTRO ACOUSTICS

Souvenir TCA 20-W/ch Amplifier
2 channels. 20 W x 2 rms into 8 ohms or 10 x 2 into 16 ohms from 20 Hz-20 kHz with 0.07% THD. Class A operation; single-ended solid-state design; active current source and zero drop-out voltage regulator. RCA inputs; 5-way binding-post outputs. Independent level controls. Black. 14 x 4 x 11 in; 14 lb $995

KENWOOD

KM-Z1 780-W THX Amplifier
6 channels. 130 W x 6 into 8 ohms or 150 W x 6 into 6 ohms. THX-certified; dual power supplies; 2-speed cooling fan; discrete power amp circuitry. Gold-plated inputs; banana-plug-compatible speaker connectors $1,200

KINERGETICS

R-288 350-W/ch Amplifier
2 channels. 350 W x 2 rms into 8 ohms, 600 x 2 into 4 ohms, 140 x 4 into 8 ohms, or 275 x 4 into 4 ohms, all from 20 Hz-20 kHz with 0.008% THD. Class A design. 2 XLR or 4 RCA inputs; four 5-way binding-post speaker terminal pairs. Black anodized finish. 3-yr parts-and-labor warranty. 17¼ x 7⅛ x 16¼ in; 75 lb $3,495

KRELL

Full Power Balanced 650M 650-W Mono Amp
1 channel. 650 W rms into 8 ohms from 20 Hz-20 kHz. Class A operation. XLR inputs; RCA inputs; 2 speaker-output terminals. S/N 119 dB. 5-yr warranty covering parts and labor. 12½ x 10⅛ x 25 in; 140 lb $25,000/pr
Full Power Balanced 350M. As above, 350 W x 1. 98 lb $16,500/pr

FPB-600 600-W/ch Amplifier
2 channels. 600 W x 2 into 8 ohms from 0.1 Hz-240 kHz with 0.02% THD, 1,200 x 2 into 4 ohms, or 2,400 x 2 into 2 ohms. Class A operation; auto bias adjustment. RCA and XLR inputs; 2 pair speaker terminals per channel. S/N 119 dB. 5-yr warranty. 19 x 10¼ x 25⅝ in; 180 lb $12,500
Remote control $200
FPB-300. As above, 300 W x 2 into 8 ohms, 600 x 2 into 4 ohms, or 1,200 x 2 into 2 ohms. S/N 116 dBA. 110 lb $9,000
FPB-200. As above, 200 W x 2 into 8 ohms, 400 x 2 into 4 ohms, or 800 x 2 into 2 ohms. S/N 113 dB. 90 lb $6,500
FPB-250M. As above, mono version. 250 W into 8 ohms, 500 x 1 into 4 ohms, or 1,000 x 1 into 2 ohms. S/N 114 dB. 12½ x 10½ x 16 in; 68 lb $4,500

KAV-500 500-W Amplifier
5 channels. 100 W x 5 into 8 ohms or 200 x 5 into 4 ohms, both from 20 Hz-20 kHz with 0.03% THD; 400 x 1 into 8 ohms. Modular design; user-installable channels. 5 RCA and 5 XLR inputs; five 5-way binding posts. Auto turn-on; gain switch for each channel. 5-yr warranty. 19 x 6¼ x 17 in; 58 lb $4,500
4-channel version of above $4,000
3-channel version of above $3,500
2-channel version of above $3,000

KAV-250a 250-W/ch Amplifier
2 channels. 250 W x 2 into 8 ohms, 500 x 2 into 4 ohms, or 1,000 x 2 into 2 ohms, all from 20 Hz-20 kHz with 0.06% THD; 1,000 x 1 into 8 ohms. Class AB operation; multi-amp throughput. RCA and XLR inputs; 5-way binding posts. Remote on/off trigger. S/N 118 dBA. 5-yr warranty. 19 x 6⅜ x 15⅜ in; 43 lb $3,000

KAV-150a 150-W/ch Amplifier
2 channels. 150 W x 2 rms into 8 ohms from 20 Hz-20 kHz with 0.25% THD. XLR outputs; RCA outputs. S/N 112 dBA. 5-yr parts-and-labor warranty. 19 x 3¾ x 15½ in; 25 lb $1,950

KUSTOM

KHS-4640 240-W Amplifier
12 channels. Designed for multiroom applications. 20 W x 12 into 6 ohms from 20 Hz-20 kHz with 0.2% THD. 4-source switching and infrared repeating for each of 6 rooms. 4 line-level stereo inputs; 6 stereo speaker-level outputs; 3 outputs for infrared emitters. Volume control; source selection and indication; infrared-signal multiroom-repeater works with most brands of A/V equipment. S/N 80 dBA; ch sep 70 dB; slew rate 10 V/µs; damping factor 100; dynamic headroom 2 dB. Black. 17 x 3½ x 10½ in; 16 lb $1,700
KHS-RVIR4S. Decora-style room controllers for above. 6 controllers required for full multiroom operation $120

Power Amplifiers

LEGACY AUDIO

Legacy 450-W Mono Amplifier
1 channel. 450 W into 8 ohms or 800 x 1 into 4 ohms, both with 0.03% THD. Class A/AB operation. S/N 93 dB; damping factor 200; dynamic headroom 2 dB. 17 x 6 x 15 in; 50 lb $2,400

Legacy 250-W/ch Amplifier
2 channels. 250 W x 2 into 8 ohms or 400 x 2 into 4 ohms, both with 0.03% THD. Class A/AB operation; 10 hand-matched bipolar outputs per channel. Dual outputs per channel. S/N 93 dB; damping factor 200; dynamic headroom 2 dB. 17 x 6 x 15 in; 50 lb $1,995

Legacy 560-W Amplifier
4 channels. 140 W x 4 into 8 ohms or 225 x 4 into 4 ohms, both with 0.03% THD. Class A/AB operation. 2/3/4 channel operation. FR 1 Hz-100 kHz; S/N 93 dB; damping factor 200; dynamic headroom 2 dB. 17 x 6 x 15 in; 50 lb $1,795

LEXICON

NT Series
All models feature completely independent power supplies for each channel, THX certification, low-voltage turn-on trigger sensor, RCA, XLR, and phone inputs, S/N 110 dB, THD 0.007%, and are available with either a 17-in or 19-in front panel.

NT-512 600-W Amplifier
5 channels. 120 W x 5 into 8 ohms or 200 W x 5 into 4 ohms. Modular construction. 17 x 5¼ x 19 in; 60 lb $3,995

NT-312 360-W Amplifier
3 channels. 120 W x 3 into 8 ohms, 200 x 3 into 4 ohms, or 400 W x 1 into 8 ohms. Signal ground-lift switch. 17 x 5¼ x 15½ in; 33 lb $2,495

NT-225 250-W/ch Amplifier
2 channels. 250 W x 2 into 8 ohms, 400 x 2 into 4 ohms, or 800 W x 1 into 8 ohms. Signal ground-lift switch. 17 x 5¼ x 15½ in; 40 lb $2,395

NT-501 500-W Mono Amplifier
1 channel. 500 W into 8 ohms or 800 x 1 into 4 ohms. Uses 2 power supplies. Signal ground-lift switch. 17 x 5¼ x 15½ in; 44 lb $2,395

NT-212 120-W/ch Amplifier
2 channels. 120 W x 2 into 8 ohms, 200 x 1 into 4 ohms, or 400 x 1 into 8 ohms. Signal ground-lift switch. 17 x 5¼ x 9 in; 22 lb $1,695

LINEAR RESEARCH

M-75 75-W Tube Mono Amplifier
1 channel. 75 W into 4 or 8 ohms. Full tube design; cage cover; Class B operation. FR 20 Hz-20 kHz –3, +1 dB; S/N 79 dB $2,695/pr

LINN

Klout 80-W/ch Amplifier
2 channels. 80 W x 2 into 8 ohms or 160 x 2 into 4 ohms. Dual-mono design with separate regulated isolated power supply for each channel; overload, overcurrent, short-circuit, thermal, over/undervoltage, and DC protection. 3 output pairs; line-level daisy-chain connectors. Remote turn-on; LED indicators $3,995

AV5105 100-W/ch Amplifier
2 channels. 100 W x 2 into 8 ohms or 200 x 2 into 4 ohms. Dual-mono design; short-circuit, overload, thermal, and overdrive protection. 4 output pairs per channel; line-level daisy-chain connectors. Signal-sensing auto on/off $1,795

LK140 95-W/ch Amplifier
2 channels. 95 W x 2 into 8 ohms or 140 x 2 into 4 ohms, both from 10 Hz-70 kHz. 2 pr RCA inputs. Standby switch. 5-yr parts, 1-yr labor warranty. 12¾ x 3¼ x 13 in; 15 lb $1,350

LK240 240-W Mono Amplifier
1 channel. 240 W rms from 2 Hz-50 kHz. Standby switch. Black. 5-yr parts, 1-yr labor warranty. 12¾ x 3¼ x 13 in; 18 lb $1,200

LK85 62-W/ch Amplifier
2 channels. 62 W x 2 into 8 ohms or 85 x 2 into 4 ohms, both rms from 10 Hz-70 kHz. Biampable. 4 phono inputs; 4 pr outputs. Standby. 5-yr warranty. 12¾ x 3¼ x 13 in; 15 lb $795

LUXMAN

M-10 250-W/ch Amplifier
2 channels. 250 W x 2 into 8 ohms, 500 x 2 into 4 ohms, or 800 x 1 into 8 ohms. FR 10 Hz-100 kHz +0, –1 dB; THD 0.04% from 20 Hz-20 kHz; S/N 115 dB. Champagne gold. 3-yr warranty $9,500

M-7 150-W/ch Amplifier
2 channels. 150 W x 2 into 8 ohms or 230 x 2 into 4 ohms. Line-phase sensor. RCA and XLR inputs. Power meters. FR 10 Hz-100 kHz +0, –1 dB; THD 0.03% from 20-20 kHz; S/N 115 dB. Champagne gold. 3-yr warranty $5,000

M-383 200-W/ch Amplifier
2 channels. 200 W x 2 rms into 8 ohms from 20 Hz-20 kHz or 700 x 2 into 2 ohms with 0.04% THD. All-stage symmetrical push-pull circuit; line-phase sensor. Gold-plated inputs; outputs for 2 speaker pairs with A/B selector; remote turn-on/off; independent L/R volume controls; clipping indicator. S/N 126 dB. 17½ x 7 x 17¼ in; 39 lb $1,495
M-363. As above, 110 W x 2 rms into 8 ohms from 20 Hz-20 kHz or 330 x 2 into 2 ohms. Not bridgeable. No volume controls. 17½ x 7 x 16⅞ in; 30 lb ...$795

M-375 110-W/ch Amplifier
2 channels. 110 W x 2 into 8 ohms or 330 x 2 into 2 ohms. All-stage symmetrical push-pull circuit; clipping indication by VU meters; Duo Beta circuitry; chimney-type heat sink. Gold-plated inputs. A/B speaker selector; remote turn-on/off. FR 10 Hz-100 kHz –1 dB; THD 0.04% from 20 Hz-20 kHz; S/N 126 dB. 17½ x 7 x 16⅞ in; 30 lb $995

MARANTZ

MA-700 200-W Mono THX Amplifier
1 channel. 200 W into 8 ohms with 0.05% THD, 300 x 1 into 4 ohms with 0.09% THD, or 600 x 1 into 8 ohms bridged. Gold-plated RCA input/output jacks. Variable input-level control; RC-5 system on/off; DC and video signal on/off trigger. S/N 118 dB; damping factor 200. 3-yr limited parts-and-labor warranty $500

MA-500 125-W THX Mono Amplifier
1 channel. 125 W rms into 8 ohms with 0.05% THD or 180 x 1 rms into 4 ohms with 0.09% THD, all from 20 Hz-20 kHz. THX-certified; multiple-unit bridging capability. Gold-plated RCA input; 2 banana-plug outputs. Remote turn-on/off with compatible equipment. S/N 116 dBA; damping factor 200 at 8 ohms. 3-yr limited warranty. 3⅜ x 5¼ x 17¾ in $300

MARCHAND

MB200 200-W Mono Amplifier
1 channel. 200 W rms into 8 ohms. Class A operation; MOSFET output stage. XLR and RCA inputs. VU meter and digital input optional. 5 x 9 x 13 in $2,995/pr
Each power amp $1,995

MARK LEVINSON

Model 33 300-W Mono Amplifier
1 channel. 300 W into 8 ohms, 600 x 1 into 4 ohms, 1,200 x 1 into 2 ohms, or 2,400 x 1 into 1 ohm. Adaptive biasing; AC generation and DC-offset correction up to 1 V; two independent bipolar power supplies; voltage gain and current-gain circuitry. XLR input. FR 20 Hz-20 kHz; THD 0.5%. 31 x 14 x 31½ in; 435 lb $35,000/pr
Model 33H. As above, 150 W into 8 ohms, 300 x 1 into 4 ohms, 600 x 1 into 2 ohms, or 1,200 x 1 into 1 ohm $19,950/pr

Model 336 350-W/ch Amplifier
2 channels. 350 W x 2 into 8 ohms, 700 x 2 into 4 ohms, or 1,400 x 2 into 2 ohms. Adaptive biasing; AC power filtering with DC-offset correction up to 1 V; separate power supplies for each channel; voltage-gain circuitry. XLR input. FR 20 Hz-20 kHz; THD 0.5%. 17¾ x 10½ x 19 in; 150 lb $8,995
Model 333. As above, 250 W x 2 into 8 ohms, 500 x 2 into 4 ohms, or 1,000 x 2 into 2 ohms $7,495
Model 334. As above, 125 W x 2 into 8 ohms, 250 x 2 into 4 ohms, or 500 x 2 into 2 ohms. 17¾ x 9½ x 19 in $5,995

MBL

Model 9010 470-W/ch Amplifier
2 channels. 470 W x 2 into 8 ohms, 800 x 2 into 4 ohms, or 1,300 x 2 into 2 ohms. Direct push-pull operation with isolated gain stage; 5 discrete power supplies; 2 power cords. XLR/RCA input switch. S/N 120 dB; slew rate 180 V/µs; damping factor 300. 21 x 10 x 34 in; 209 lb $19,790

Model 8010c 180-W/ch Amplifier
2 channels. 180 W x 2 into 8 ohms, 270 x 2 into 4 ohms, or 310 x 2 into 2 ohms. Dual-mono design. XLR/RCA input switch. S/N 116 dB; slew rate 30 V/µs; damping factor 300. Black high-gloss front plate. 18 x 6 x 15 in; 67 lb $5,190

Model 8008 240-W Amplifier
4 channels. 60 W x 4 into 8 ohms or 135 x 4 into 2 ohms. S/N 116 dB $4,100

Model 8004 60-W/ch Amplifier
2 channels. 60 W x 2 or 180 x 1 into 8 ohms; 135 x 2 or 310 x 1 into 2 ohms. Current-summing bars designed as closed circuit. XLR/RCA input switch. S/N 116 dB; slew rate 30 V/µs; damping factor 300. 18 x 6 x 15 in; 40 lb $2,950

McINTOSH

MC500 500-W/ch Amplifier
2 channels. 500 W x 2 cont into 2, 4, or 8 ohms from 20 Hz-20 kHz with 0.005% THD. Outputs for 2, 4, or 8 ohms. 2 power meters. S/N 115 dBA; damping factor 200; dynamic headroom 2.1 dB. 17¼ x 10⅜ x 20⅛ in; 110 lb $7,000

MC1000 1,000-W Mono Amplifier
1 channel. 1,000 W cont into 2, 4, or 8 ohms from 20 Hz-20 kHz with 0.005% THD. Dual-balanced design. Gold-plated multiple-way outputs for 2, 4, or 8 ohms. Power meter. S/N 118 dBA; damping factor 200; dynamic headroom 2.1 dB. 17¼ x 10⅜ x 20⅛ in; 105 lb $6,500

MC300 300-W/ch Amplifier
2 channels. 300 W x 2 or 600 x 1. McIntosh Autoformer for channel-to-speaker coupling with impedance taps of 2, 4, and 8 ohms. XLR and RCA inputs. 2 power meters. S/N 105 dBA $4,000

MC7106 960-W THX Amplifier
6 channels. 160 W x 6 into 4 ohms. THX-certified; protection circuitry. Power meter. THD 0.005%; S/N 113 dBA. 17½ x 7⅛ x 20 in; 53 lb $3,500

MC7108 320-W Amplifier
8 channels. 40 W x 8 into 8 ohms; each channel pair bridgeable to 100 W into 4 ohms. THD 0.005%; S/N 107 dBA. 17½ x 7⅛ x 20 in; 40 lb $2,500

MISTRAL

Powerstage 50-W/ch Amplifier
2 channels. 50 W x 2 into 8 ohms. Class A input and driver stage; Class A/B MOSFET output stage; Star grounding; separate input; custom wiring. 2 sets speaker outputs. Brushed aluminum. 17 x 2½ x 13 in $995

Power Amplifiers

MONARCHY AUDIO

SE-100 100-W Mono Amplifier
1 channel. 100 W into 8 ohms from 20 Hz-20 kHz with 0.05% THD. Single-ended pure Class A design; 2-stage MOSFET output. RCA and XLR inputs. S/N 104 dB; slew rate 100 V/µs. 9 x 3½ x 11 in; 25 lb $890

MUSE

One Hundred 100-W/ch Amplifier
2 channels. 100 W x 2 into 8 ohms or 200 x 2 into 4 ohms, both from 13 Hz-200 kHz with 0.5% THD. 1 pair inputs; 1 pair outputs. Silver or black front panel. 3-yr warranty. 19 x 3½ x 13½ in; 30 lb ...$1,350
XLR inputs $100

Series II
Three Hundred 300-W/ch Amplifier
2 channels. 300 W x 1 into 8 ohms or 500 x 1 into 4 ohms, both from 13 Hz-250 kHz with 0.5% THD. 1 pair RCA inputs; 1 pair XLR inputs; 1 pair outputs. Silver or black front panel. 3-yr warranty. 17¼ x 7½ x 13½ in; 39 lb $2,000
One Hundred Sixty. As above, 160 W x 2 into 8 ohms or 250 x 2 into 4 ohms, both from 13 Hz-200 kHz with 0.5% THD $1,900
One Hundred Seventy-Five. As above, 175 W x 1 into 8 ohms, or 325 x 1 into 4 ohms, both from 13 Hz-250 kHz with 0.5% THD $1,750

MUSEATEX

AS10 100-W/ch Amplifier
2 channels. 100 W x 2. MOSFET output; floating-charge power supply; proprietary static-fan heat sink $1,999

MUSICAL DESIGN

The following feature gold-plated RCA inputs and gold-plated five-way binding posts.

D-150C 150-W/ch Amplifier
2 channels. 150 W x 2 into 8 ohms with 0.09% THD or 240 x 1 into 4 ohms with 0.12% THD. LED-biased cascode Class A driver stage; dual-mono power supply; single-ended design. 1 pair. Removable IEC power cord. S/N 90 dB; ch sep 80 dB; slew rate 30 V/µs; damping factor 200. Mist-gray wrinkle paint with stainless-steel faceplate. 18 x 5½ x 14½ in; 36 lb $1,695

D-150B 150-W/ch Amplifier
2 channels. 150 W x 2 into 8 ohms or 240 x 2 into 4 ohms. LED-biased cascode Class A driver stage; dual-mono power supply; ⅛-in steel chassis. THD 0.09%. 19 x 5½ x 14½ in $1,495

DM-100B 100-W/ch Amplifier
2 channels. 100 W x 2 into 8 ohms or 200 x 2 into 4 ohms, both with 0.09% THD. Dual-mono design with separate power supplies; doubled MOSFET output devices. 17 x 5½ x 12 in $1,195

D-75.3B 225-W Amplifier
3 channels. 75 W x 3 into 8 ohms from 20 Hz-20 kHz with 0.09% THD. Class A single-ended front-end; single-ended cascode stage; Class AB MOSFET output stage. S/N 100 dB; slew rate 30 V/µs. 5-yr warranty. 17 x 4 x 12 in $1,095

D-75 75-W/ch Amplifier
2 channels. 75 W x 2 into 8 ohms or 110 x 2 into 4 ohms, both from 20 Hz-20 kHz. LED-biased cascode driver stage; toroidal transformer; dual-mono power supply; MOSFET output devices. Bridging switch $795

MYRYAD

MA-500 250-W/ch Amplifier
2 channels. 250 W x 2 or 800 x 1, both into 8 ohms. XLR inputs; RCA inputs. FR 20-20,000 Hz ±0.2 dB; S/N 120 dB. Black and silver. 19 x 7 x 15¾ in; 55 lb $2,750

MA-120 80-W/ch Amplifier
2 channels. 80 W x 2 into 8 ohms, 120 x 2 into 4 ohms, or 160 x 2 into 2 ohms. Gold-plated RCA phono inputs. Standby button. S/N 111 dB. Black or silver finish. 17 x 4 x 12 in; 19 lb $899

NAD

The following feature Soft Clipping circuitry to prevent speaker-damaging distortion.

S200 225-W/ch Amplifier
2 channels. 225 W x 2 or 780 x 1, both into 8 ohms from 20 Hz-20 kHz with 0.03% THD. Discrete regulated power supply for input stage. 2 RCA inputs; 2 XLR inputs. Switchable soft-clipping circuitry. S/N 120 dB; slew rate 100 V/µs; damping factor 200; dynamic headroom 1 dB. All aluminum chassis with smooth sandblasted finish. 17¾ x 7 x 16 in; 52 lb $1,799

Model 925 THX 625-W Amplifier
5 channels. 125 W x 5 into 8 ohms from 20 Hz-20 kHz with 0.08% THD. Monoblock modular construction; Class A circuitry. 5 inputs. Input-gain control; switchable soft-clipping circuitry. S/N 112 dBA; ch sep 70 dB; damping factor 300 from 20 Hz-20 kHz. Gray. 17⅛ x 5½ x 16⅝ in; 42 lb $1,299

Model 218THX 225-W/ch THX Amplifier
2 channels. 225 W x 2 cont or 780 W into 8 ohms from 20 Hz-20 kHz with 0.03% THD. All-discrete circuitry. XLR inputs; RCA inputs; 5-way binding posts. S/N 120 dB. 19 x 6⅞ x 14½ in; 51 lb ...$999

Model 216THX 125-W/ch Amplifier
2 channels. 125 W x 2 or 400 W into 8 ohms from 20 Hz-20 kHz at 0.03% THD. All-discrete circuitry. 5-way binding posts. S/N 119 dB. 17⅛ x 5 x 15 in; 31 lb $699

Model 916 180-W Amplifier
6 channels. 30 W x 6 cont from 20 Hz-20 kHz with 0.5% THD, 30 x 4 + 90 x 1, 30 x 2 + 90 x 2, or 90 x 3, all into 8 ohms. 3 discrete power supplies; 2-ohm drive capability. 6 buffered line-level outputs. S/N 85 dB. 16½ x 4¼ x 14½ in $699

Model 214 80-W/ch Amplifier
2 channels. 80 W x 2 from 20 Hz-20 kHz at 0.03% THD or 240 W x 1, both into 8 ohms. All-discrete circuitry. 5-way binding posts. S/N 117 dB. 17⅛ x 5 x 15 in; 26 lb $499

Model 912 30-W/ch Amplifier
2 channels. 30 W x 2 cont from 20 Hz-20 kHz with 0.5% THD or 90 x 1, both into 8 ohms. 2-ohm drive capability. Variable input sens. S/N 85 dB; damping factor 100 at 50 Hz; dynamic headroom 2 dB. 16½ x 3⅜ x 10⅝ in $279

NAIM

NAP-135 75-W Mono Amplifier
1 channel. 75 W cont into 8 ohms. 2 regulated power supplies; thermal protection; fan cooling. FR 3 Hz-40 kHz ±3 dB. 16¾ x 3 x 11¾ in $3,550

NAP-250 70-W/ch Amplifier
2 channels. 70 W x 2 cont into 8 ohms. 4 regulated power supplies; thermal protection. FR 3 Hz-40 kHz ±3 dB $3,550

NAP-180 60-W/ch Amplifier
2 channels. 60 W x 2 cont into 8 ohms. Thermal protection. FR 5 Hz-40 kHz ±3 dB. 16¾ x 3 x 11¾ in $2,250

NAP-140 45-W/ch Amplifier
2 channels. 45 W x 2 cont into 8 ohms. Dual-power-supply rectification; thermal protection. FR 5 Hz-40 kHz ±3 dB. 16¾ x 3 x 11¾ in $1,600

NAP-90/3 30-W/ch Amplifier
2 channels. 30 W x 2 cont into 8 ohms. Protection circuitry. FR 5 Hz-40 kHz ±3 dB $950

NAKAMICHI

PA-1 500-W Amplifier
5 channels. 100 W x 5 rms into 8 ohms from 20 Hz-20 kHz with 0.1% THD. Harmonic time-alignment design. 5 gold-plated RCA inputs; five 5-way binding-post outputs. Remote turn-on/off. S/N 100 dB. 3-yr. 17 x 7⅞ x 15¾ in; 49 lb $2,000

NILES

SI-1230 300-W Multizone Amplifier
2 channels x 6 zones. 30 W x 12 into 8 ohms from 20 Hz-20 kHz with 0.01% THD; channel pairs bridge to 80 x 1 into 8 ohms from 20 Hz-20 kHz with 0.1% THD. Thermal and short-circuit protection. 12-V DC switched trigger output; 5-way binding posts. BusMatrix selector to route stereo, mono, and surround sound simultaneously to different rooms; level controls for each channel; music-sense and external-voltage-trigger turn-on modes. 17 x 5¼ x 14 in; 29 lb $1,195

OCTAVE RESEARCH

OR-1 80-W/ch Amplifier
2 channels. 80 W x 2 from 20 Hz-20 kHz with 0.9% THD into 8 ohms. Class A; no negative feedback; 4 power supplies. 2 RCA or optional BNC inputs. S/N 95 dB; slew rate 100 V/µs; dynamic headroom 3 dB. Brushed anodized. 3-yr parts-and-labor warranty. 19 x 9⅛ x 19⅝ in; 66 lb $4,000

ODYSSEY

Stratos 150-W/ch Amplifier
2 channels. 150 W x 2 into 8 ohms from 2 Hz-400 kHz with 0.005% THD. Class A/AB operation. 2 RCA inputs; 2 XLR inputs; 2 outputs. Variety of different colors optional. Slew rate 1 V/µs; damping factor 600. Solid metal. 18 x 6 x 17 in; 60 lb $1,195

ONIX

OA 701 70-W/ch Amplifier
2 channels. Designed for use with the OA 36 remote preamp. 70 W x 2 into 8 ohms or 140 x 2 into 4 ohms. Regulated power supply for each channel. Onix output-protection circuit. 14 x 3 x 18 in $1,895

OA 901 100-W Mono Amplifier
1 channel. 100 W into 8 ohms or 190 x 1 into 4 ohms. Regulated power supplies for audio input and output stages. 14 x 3 x 18 in $1,895

OA 1200 170-W/ch Amplifier
2 channels. 170 W x 2 into 8 ohms, 200 x 1 into 8 ohms. Gold-plated binding posts. THD 0.02%; S/N 100 dB. 17 x 4¼ x 13 in; 21 lb $1,495

OA 401 50-W/ch Amplifier
2 channels. 50 W x 2. Electronic protection circuit. 9 x 3 x 14½ in $795

ONKYO

Integra M-504 165-W/ch Amplifier
2 channels. 165 W x 2 rms into 8 ohms or 530 x 2 max into 2 ohms. Dual-mono design. 4-way speaker selector; peak power meters. THD 0.003%; S/N 120 dB. 17⅛ x 7¼ x 16⅝ in; 46 lb $870

M-501 150-W/ch Amplifier
2 channels. 150 W x 2 rms into 8 ohms or 400 x 2 into 2 ohms. Protection circuitry. Outputs for two speaker pairs. THD 0.09%; S/N 100 dB; damping factor 60. 17⅛ x 5⅞ x 13¾ in; 23 lb $400

PAPWORTH

M 300 300-W Tube Mono Amplifier
1 channel. 300 W into 8 ohms from 10 Hz-30 kHz with 0.25% THD. RCA input. S/N 95 dB. Chrome stainless steel. 21 x 8 x 14 in; 93 lb $13,800

M 200 200-W Tube Mono Amplifier
1 channel. 200 W. Eight EL34, two ECC83 and one

12BH7A tubes. FR 10 Hz-30 kHz; THD 0.25%; S/N 95 dB. 18⅛ x 7¾ x 11 in; 68 lb $9,800/pr

M 100 100-W Tube Mono Amplifier
1 channel. 100 W. Mirror-polished stainless-steel chassis with gold-plated connectors; 2 EL34, 2 ECC83, and 1 ECC81 tubes. FR 20 Hz-30 kHz ±0.2 dB; THD 0.15%; S/N 95 dB. 97/8 x 6 x 15 in; 40 lb $6,200/pr

TVA 10 50-W/ch Tube Amplifier
2 channels. 50 W x 2. Mirror-polished stainless-steel chassis with gold-plated connectors; 4 EL32, 4 ECC83, and 2 ECC81 tubes. FR 10 Hz-25 kHz ±0.1 dB; THD 0.1%; S/N 95 dB. 17¾ x 8¼ x 6¾ in; 40 lb $3,000

PARASOUND

HCA-2205A 1,100-W THX Amplifier
5 channels. 220 W x 5 into 8 ohms or 300 x 5 into 4 ohms, both from 20 Hz-20 kHz with 0.03% THD. Direct coupled; Class AB design; matched JFET input stage; MOSFET driver stage; 8 Beta-matched 15-ampere 60-MHz bipolar output transistors per channel; excess DC, overcurrent, and thermal protection. 5 gold-plated RCA inputs; 5 speaker outputs; 5 output loops; 5 gold-plated binding posts. Auto turn-on trigger; rear-mounted gain controls; gold-plated bridging switches; 4 rack-space front panel; rack mountable $2,495

HCA-3500 350-W/ch Amplifier
2 channels. 350 W x 2 into 8 ohms or 600 x 2 into 4 ohms, both from 20 Hz-20 kHz with 0.03% THD. Direct coupled; Class AB design with matched JFET input stage; MOSFET driver stage; Beta-matched bipolar output transistors; excess DC, overcurrent, and thermal protection. Gold-plated RCA and XLR inputs; 2 output loops; gold-plated binding posts. Rack dual power switches and power cords; rear-mounted gain controls; 4 rack-space front panel; rack mountable $2,195

HCA-2003A 660-W Amplifier
3 channels. 220 W x 3 into 8 ohms or 310 x 3 into 4 ohms, both from 20 Hz-20 kHz with 0.05% THD. Separate power supplies for each channel; separate supplies for driver stage of each channel. Mounts in standard EIA 3U rack. S/N 110 dB; slew rate 130 V/µs; damping factor 800 .....$1,725

HCA-1205A 600-W/ch THX Amplifier
5 channels. 120 W x 5 into 8 ohms or 200 x 5 into 4 ohms, both from 20 Hz-20 kHz with 0.03% THD. Direct coupled; Class AB design; matched JFET input stage; 6 Beta-matched 15-ampere 60-MHz bipolar output transistors per channel; excess DC, overcurrent, and thermal protection. 5 gold-plated RCA inputs; 5 speaker outputs; 5 output loops; 5 gold-plated binding posts. Auto turn-on trigger signal; rear-mounted gain controls; gold-plated bridging switches; 4 rack-space front panel $1,650

HCA-4012A 480-W Multizone Amplifier
2 channels x 6 zones. 40 W x 12 into 8 ohms from 20 Hz-20 kHz with 0.08% THD or 60 W x 12 into 4 ohms from 20 Hz-20 kHz with 0.1% THD. 12 discrete line inputs; stereo left and right inputs; DC trigger connections. Auto turn-on; level controls for each channel; adjustable muting for each channel. 10-yr parts, 5-yr labor warranty. 45 lb $1,195

HCA-806 480-W Amplifier
6 channels. 80 W x 6 rms into 8 ohms, 120 x 6 rms into 4 ohms, or 180 x 1 rms, all from 20 Hz-20 kHz with 0.05% THD. Matched JFET inputs; 24 Beta-matched 15-ampere 60-MHz bipolar outputs; DC servo circuitry. Gold-plated 5-way binding posts; RCA jacks. Looping switches for multiple-zone stereo; gain controls. S/N 118 dBA, input shorted, IHF; slew rate 130 V/µs; dynamic headroom 2 dB. 19 x 5¼ x 18½ in; 50 lb $1,195

HCA-1203A 360-W THX Amplifier
3 channels. 120 W x 3 into 8 ohms or 200 x 3 into 4 ohms, both from 20 Hz-20 kHz with 0.03% THD. Class AB design; direct coupled; matched JFET input stage; 6 Beta-matched 15-ampere 60-MHz bipolar output transistors per channel; excess DC, overcurrent, and thermal protection. 3 gold-plated RCA inputs; 3 speaker outputs; 3 output loops; gold-plated 5-way binding posts. Auto turn-on trigger; rear-mounted gain controls; gold-plated bridging switches; 4 rack-space front panel; rack mountable $1,095

HCA-1500A 205-W/ch THX Amplifier
2 channels. 205 W x 2 into 8 ohms, 315 x 2 into 4 ohms, or 630 x 1 into 8 ohms, all from 20 Hz-20 kHz with 0.03% THD. Direct coupled; Class AB design; matched JFET input stage; MOSFET driver stage; 8 Beta-matched 15-ampere 60-MHz bipolar output transistors per channel; excess DC, overcurrent, and thermal protection. 2 gold-plated RCA inputs; 2 speaker outputs; 2 output loops; gold-plated 5-way binding posts. Auto turn-on trigger; rear-mounted gain controls; gold-plated bridging switches; 4 rack-space front panel; rack mountable $995

HCA-1000A 135-W/ch THX Amplifier
2 channels. 110 W x 2 into 8 ohms with 0.03% THD, 200 x 2 into 4 ohms, or 300 x 1 into 8 ohms from 20 Hz-20 kHz. THX-certified; complimentary JFET input transistors; MOSFET drivers; 12 Beta-matched 15-ampere 60-MHz bipolar outputs; DC servo circuitry; direct coupling; dual independent power supplies. Gold-plated 5-way binding posts; RCA inputs. Current overload indicators; gain controls; auto turn-on with 12-VDC trigger signal. Available with 17¼-in front-panel $575

HCA-750A 75-W/ch Amplifier
2 channels. 75 W x 2 into 8 ohms, 100 x 2 into 4 ohms, or 200 x 1 into 8 ohms, all from 20 Hz-20 kHz with 0.03% THD. Direct coupled; Class AB design; matched JFET input stage; 4 Beta-matched 15-ampere 60-MHz bipolar output transistors per channel; excess DC, overcurrent, and thermal protection. 2 gold-plated RCA inputs; 2 speaker outputs; 2 output loops; gold-plated 5-way binding posts. Auto turn-on trigger; rear-mounted gain controls; gold-plated bridging switches; 4 rack-space front panel; rack mountable $429

ZAMP 30-W/ch Amplifier
2 channels. 30 W x 2 into 8 ohms or 45 x 2 into 4 ohms from 20 Hz-20 kHz with 0.06% THD. DC servo coupled circuitry. Front-panel headphone jack. Rear-panel level controls $249

PASS LABORATORIES

X1000 1,000-W Mono Amplifier
1 channel. 1,000 W into 8 ohms with 1% THD. Symmetrically-balanced single-ended Class A design; 2 gain stages; MOSFET circuitry. XLR input. 19 x 10½ x 28 in; 200 lb $12,000
X600. As above, 600 W. 19 x 10½ x 22 in . . .$7,500

Aleph 1.2 200-W Mono Amplifier
1 channel. 200 W into 8 ohms at 1% THD. Single-ended Class A operation; 2 gain stages; MOSFET circuitry; 500-W idle current. XLR or RCA inputs. 16 x 16½ x 10½ in; 105 lb $7,000

Aleph 4 100-W/ch Amplifier
2 channels. 100 W x 2 into 8 ohms with 1% THD. Single-ended Class A operation; 2 gain stages; MOSFET circuitry. XLR and RCA inputs. 16½ x 10½ x 16½ in; 105 lb $7,000

Aleph 0 75-W Mono Amplifier
1 channel. 75 W into 8 ohms at 1% THD. Single-ended Class A operation; 3-gain stages; MOSFET circuitry; 2 50-W idle current. XLR or RCA inputs. 12 x 12 x 10½ in; 60 lb $4,000

Aleph 5 60-W/ch Amplifier
2 channels. 60 W x 2 into 8 ohms with 1% THD. Single-ended Class A operation; 2 gain stages; MOSFET circuitry; 300-W idle current. XLR or RCA inputs. 12 x 12 x 10½ in; 60 lb $3,800

Aleph 2 100-W Mono Amplifier
1 channel. 100 W into 8 ohms at 1% THD. Single-ended Class A operation; 2 gain stages; MOSFET circuitry; 300-W idle current. XLR or RCA inputs. 12 x 12 x 10½ in; 60 lb $3,400

Aleph 3 30-W/ch Amplifier
2 channels. 30 W x 2 into 8 ohms at 1% THD. Single-ended Class A operation; 2 gain stages; MOSFET circuitry; 200-W idle current. RCA inputs only. 12 x 12 x 6½ in; 40 lb $2,300

PERREAUX

Classic models have a polished aluminum, silver or black chrome, or 24k gold-plated front panel. Professional models have a black-aluminum front panel.

Model 750 Classic 750-W Mono Amplifier
1 channel. 750 W into 8 ohms from 20 Hz-20 kHz with 0.05% THD. XLR and RCA inputs; dual binding posts for biwiring. Damping factor 700; dynamic headroom 2 dB. 77 lb $5,895
Model 750 Professional. $5,495

Model 350 Classic 350-W/ch Amplifier
2 channels. 350 W x 2 into 8 ohms from 20 Hz-20 kHz with 0.02% THD. Dual power supplies; MOSFET output stage; multiple protection systems; Class A driver stages; Class A/B output stages. XLR and RCA inputs; dual binding posts. Balanced/normal input-select switch; rear-mounted on/off switch; delayed power-on; instant off. Damping factor 700; dynamic headroom 2 dB. 19 x 7 x 18 in; 77 lb $5,395
Model 350 Professional. $4,995

Model 6160 Classic 960-W Amplifier
6 channels. Designed for home-theater, multiroom, and tri-amping applications. 160 W x 6 into 8 ohms from 20 Hz-20 kHz with 0.02% THD. MOSFET output stage; Class A driver stages; Class A/B output stages. 6 RCA inputs; 6 sets of 5-way output terminals. Clipping indicators; bridged/normal input-select switch; rear-mounted on/off switch. Damping factor 500; dynamic headroom 2.3 dB. 19 x 7 x 18 in; 81 lb $5,395
Model 6160 Professional. $4,995

Model 250 Classic 250-W/ch Amplifier
2 channels. 250 W x 2 into 8 ohms from 20 Hz-20 kHz with 0.02% THD. Dual power supplies; MOSFET output stage; multiple protection systems; Class A driver stages; Class A/B output stage. XLR and RCA inputs; dual binding posts. Balanced/normal input-select switch; rear-mounted on/off switch; delayed power-on; instant off. Damping factor 700; dynamic headroom 2 dB. 19 x 7 x 18 in; 66 lb $4,395
Model 250 Professional. $3,995

Model 400 Classic 400-W Mono Amplifier
1 channel. 400 W into 8 ohms from 20 Hz-20 kHz with 0.05% THD. XLR and RCA inputs; dual binding posts. Damping factor 500; dynamic headroom 2 dB. 37 lb $3,895
Model 400 Professional. $3,495

Model 200 Classic 200-W/ch Amplifier
2 channels. 200 W x 2 into 8 ohms from 20 Hz-20 kHz with 0.02% THD. XLR and RCA inputs; dual binding posts. Damping factor 500; dynamic headroom 2 dB. 33 lb $3,395
Model 200 Professional. 33 lb $2,995

PIONEER

M-72 200-W Amplifier
4 channels. 50 W x 4 cont into 8 ohms from 20 Hz-20 kHz with 0.02% THD or 100 x 2 cont into 8 ohms from 20 Hz-20 kHz with 0.009% THD. Outputs for 3 speaker pairs; headphone jack. S/N 120 dBA. 18⅛ x 6½ x 16¾ in $1,000

Power Amplifiers

POLYFUSION AUDIO

Model 960 200-W/ch Amplifier
2 channels. 200 W x 2 into 8 ohms or 400 x 2 into 4 ohms, both from 5 Hz-40 kHz with 0.02% THD. Class A/AB matched MOSFET output stage; DC coupled with servo control; short-circuit protection; diagnostic and protection circuitry. XLR and RCA inputs; 5-way binding posts. Front-panel diagnostic indicators; VU bar-graph displays; auto and manual mute; display on/off switch. S/N 106 dB; ch sep 110 dB; slew rate 100 V/µs; damping factor 100; dynamic headroom 1.5 dB. Anodized aluminum in black, silver, or gold. 3-yr warranty. 19 x 8 x 22¼ in; 70 lb $4,950

Model 860 100-W/ch Amplifier
2 channels. 100 W x 2 into 8 ohms or 200 x 2 into 4 ohms, both from 5 Hz-25 kHz with 0.02% THD. Class A/AB matched MOSFET output stage; DC coupled with servo control; short-circuit protection; diagnostic and protection circuitry. XLR and RCA inputs; 5-way binding posts. Front-panel diagnostic indicators; auto and manual mute. S/N 110 dB; ch sep 110 dB; slew rate 50 V/µs; damping factor 100; dynamic headroom 1.5 dB. Anodized aluminum in black, silver, or gold. 3-yr warranty. 19 x 6⅛ x 14¾ in; 40 lb $2,850

Model 870 300-W Amplifier
3 channels. 100 W x 3 into 8 ohms from 5 Hz-25 kHz with 0.02% THD. Class A/AB matched MOSFET output stage; short-circuit proof; on-board diagnostics and protection circuitry. 1 pair XLR and RCA inputs per channel; 1 pair 5-way binding posts per channel. Input selector on each channel for XLR/RCA input; auto/manual mute switch. S/N 102 dB; ch sep 100 dB; slew rate 50 V/µs; damping factor 100; dynamic headroom 1.5 dB. Powder coat black cabinet with gray front panel. 3-yr warranty. 17 x 6 x 14¾ in; 42 lb $1,995

POWER MODULES

Belles 150A/3 150-W Amplifier
3 channels. 100 W x 3 rms into 8 ohms or 150 x 3 rms into 4 ohms, both from 1 Hz-100 kHz with 0.1% THD. MOSFET circuitry; direct coupled; noninverting. 3 RCA inputs; 3 RCA outputs. S/N 100 dB; slew rate 50 V/µs; damping factor 200; dynamic headroom 2.0 dB. Black anodized finish. 5-yr warranty. 17 x 6¼ x 13½ in; 32 lb $1,495

Belles 150A/2 100-W/ch Amplifier
2 channels. 100 W x 2 rms into 8 ohms or 170 x 2 rms, both from 1 Hz-100 kHz with 0.1% THD. MOSFET circuitry; direct coupled; noninverting. S/N 100 dB; ch sep 50 dB; slew rate 50 V/µs; damping factor 200; dynamic headroom 2.3 dB. Black anodized finish. 5-yr warranty. 17 x 6¼ x 11 in; 28 lb $1,195

PROCEED

AMP5 625-W Amplifier
5 channels. 125 W x 5 cont into 8 ohms or 250 x 5 cont into 4 ohms. Dedicated power supply for each channel. 5-way binding posts; XLR and RCA inputs. Remote turn-on capability $4,995

HPA3 750-W Amplifier
3 channels. 250 W x 3 cont into 8 ohms or 500 x 3 cont into 4 ohms. 5-way binding posts; XLR inputs; RCA inputs. Remote turn-on capability $4,750
HPA2. As above, 2 channels $3,250

AMP3 450-W THX Amplifier
3 channels. 150 W x 3 into 8 ohms or 250 x 3 into 4 ohms. THX certified. 5-way binding posts; XLR and RCA inputs. Remote turn-on capability $2,995
AMP2. As above, 2 channels. Can be upgraded to AMP3 .....$1,995

PROTON

AA-1660 360-W Amplifier
6 channels. 60 W x 6 into 8 ohms or 100 x 6 into 4 ohms, both from 20 Hz-20 kHz ±0.5 dB with 0.05% THD. Protection circuitry. S/N 113 dB; damping factor 100. 16½ x 4¾ x 15½ in $700

AA-2120 120-W/ch Amplifier
2 channels. 120 W x 2 into 8 ohms or 180 x 2 into 4 ohms, both from 20 Hz-20 kHz ±0.3 dB with 0.01% THD. Dual-mono design. Gold-plated outputs; RCA inputs. 2 peak meters. S/N 100 dB; slew rate 50 V/µs; damping factor 100; dynamic headroom 2.5 dB. 16½ x 4⅞ x 15½ in $700
AA-2080. As above, 80 W x 2 into 8 ohms or 120 x 2 into 4 ohms $500

AA-2480 320-W Amplifier
4 channels. 80 W x 4 into 8 ohms, 240 x 2 into 8 ohms, or 80 x 2 + 120 x 1 into 8 ohms, all with 0.05% THD. Thermal auto-sensing design; multispeed fan; protection circuit. 2 stereo RCA inputs; 4 stereo speaker outputs; 1 mini-plug on input. S/N 113 dB. 16½ x 3 x 14 in; 26 lb $500

PSE

Studio V 230-W Mono Amplifier
1 channel. 230 W into 4 ohms. Class A/AB design; FET voltage-gain stage; MOSFET driver stage; bipolar output stage without feedback. RCA input; XLR input. Input-selection switch. S/N 100 dBA; slew rate 100 V/µs; dynamic headroom 0.7 dB. All-aluminum chassis painted black. 5-yr warranty. 17 x 3½ x 11½ in; 20 lb $1,995/pr

QUICKSILVER AUDIO

Model 135 135-W Mono Tube Amplifier
1 channel. 135 W into 4 or 8 ohms. Hand wiring; one 12AU7, one 12FQ7, and six EL34 vacuum tubes. Front-panel meter and bias controls. FR 20 Hz-20 kHz. 13 x 8 x 17 in; 70 lb $3,250

V4 120-W Tube Mono Amplifier
1 channel. 120 into 4 or 8 ohms from 22 Hz-40 kHz. Four matched KT88 output tubes; 12FQ7 input tube; 12BH7 driver tube; Class AB operation; pentode output stage; hand wiring. 5-way binding posts. Chassis-mounted bias meter; individual bias controls for each output tube. Nickel chassis. 3-yr warranty. 16¾ x 7⅞ x 13¾ in; 51 lb ...$1,900

Mini-Mite 25-W Tube Mono Amplifier
1 channel. 25 W into 2, 4, or 8 ohms from 20 Hz-20 kHz. Two EL34 output tubes; 12AX7 driver and input tube; Class AB operation; point-to-point hand wiring; self-biasing. RCA input; 2, 4, and 8 ohm screw terminal. Can use SL6 output tubes. Carbide black chassis. 11 x 5½ x 8 in; 20 lb $499

RBH

SAM-200 180-W Mono Amplifier
1 channel. Designed for use with subwoofers. 180 W into 8 ohms, 200 x 1 into 4 ohms, or 220 x 1 into 2 ohms. Class AB operation; variable crossover from 40-180 Hz. 1 set line-level inputs; 1 set speaker-level inputs; 1 set high-level outputs. Auto power-on; power switch; crossover bypass; variable crossover; master volume; power-indicator light. Damping factor 100; dynamic headroom 1.5 dB. Black-brushed aluminum. 17 x 4 x 13 in; 17 lb $410

RCM AKUSTIK

Detonation Series
The following are designed for use with a subwoofer.

DT110 125-W Mono Amplifier
1 channel. 125 W rms into 8 ohms or 150 x 1 rms into 4 ohms at 1 kHz with 0.01% THD. Class AB operation. 2 RCA inputs; RCA output; binding posts. Auto on/off/standby; 18 dB/oct low-pass cutoff infinitely variable from 40-180 Hz; 12 dB/oct subsonic filters; 6 dB/oct and 12 dB/oct satellite filters; mounts in speaker enclosure back; remote control. S/N 100 dB; damping factor 200. Matte-black brushed aluminum. 8⅝ x 4⅜ x 10⅜ in; 11 lb ...$229
DT109. As above without remote control $199
DT107. As above, 80 W x 1 into 8 ohms or 125 x 1 into 4 ohms. 8 x 4⅜ x 10 in; 10 lb $169
DT105. As above, 50 W x 1 into 8 ohms or 70 x 1 into 4 ohms $149

ROTEL

RB 993 600-W Amplifier
3 channels. 200 W x 3 into 8 ohms from 20 Hz-20 kHz with 0.03% THD. Front-panel heat sink; thermal-protection circuit; discrete output devices; low negative feedback. 3 RCA inputs; 3 XLR inputs; 3-way binding posts. S/N 116 dBA; damping factor 280. Black. 5-yr warranty. 17⅜ x 4¾ x 14¼ in; 40 lb $1,500

RB-985THX 500-W THX Amplifier
5 channels. 100 W x 5 cont into 8 ohms. THX-certified. RCA and DB-25 inputs; 5-way binding-post terminals. FR 10 Hz-80 kHz ±0.5 dB; S/N 115 dB; damping factor 180. 17⅜ x 5½ x 15⅝ in ...$1,000

RB-991 200-W/ch Amplifier
2 channels. 200 W x 2 cont into 8 ohms. XLR inputs; RCA inputs; binding-post terminals. FR 4 Hz-100 kHz +0.5, –3 dB; S/N 120 dB; damping factor 1000. 17⅜ x 4¾ x 14¾ in $1,000

RB-976 360-W Amplifier
6 channels. 60 W x 6, 60 x 4 + 150 x 1, 60 x 2 + 150 x 2, or 150 x 3 cont into 8 ohms. 3 sets RCA inputs; 3 sets binding-post terminals. Gain control. FR 10 Hz-80 kHz ±1 dB; S/N 105 dB; damping factor 180. 17⅜ x 4¾ x 14½ in $600

RB-981 130-W/ch Amplifier
2 channels. 130 W x 2 or 360 x 1 cont into 8 ohms. Binding-post terminals. FR 4 Hz-100 kHz +0.5, –3 dB; S/N 120 dB; damping factor 1,000. 17⅜ x 4¾ x 12 in $600

RB-971 60-W/ch Amplifier
2 channels. 60 W x 2 or 180 x 1 cont into 8 ohms. RCA inputs; binding-post terminals. FR 15 Hz-100 kHz –3 dB; THD 0.03%; S/N 116 dB; damping factor 280. 17⅜ x 3⅜ x 12 in $400

RB-951 50-W/ch Amplifier
2 channels. 50 W x 2 with 0.03% THD or 150 x 1 with 0.1% THD, both into 8 ohms from 20 Hz-20 kHz. Parallel mono configuration; thermal protection; Class AB operation. 2 single-end RCA inputs; binding posts. Adjustable input level; clipping indicators; auto on/off; link output; sensitivity adjustment. S/N 116 dB; damping factor 280. Black. 5-yr warranty. 17⅜ x 3⅜ x 13¼ in; 15 lb $350

SHERWOOD

AM-9080 600-W Amplifier
5 channels. 120 W x 5 into 8 ohms with 0.05% THD, 200 x 5 into 4 ohms with 0.09% THD, or 320 x 5 into 2 ohms with 0.8% THD. Independent monoblock design; 3 power transformers; discrete amp circuitry; parallel pure-complementary push-pull output; servo-controlled DC output; circuit to maintain symmetry between positive and negative input sine waves. Gold-plated 5-way binding posts; DigiLink III system control input; 5 gold-plated inputs. S/N 115 dBA. Titanium. 3-yr parts-and-labor warranty. 17⅜ x 7⅝ x 18⅜ in; 70 lb $1,200

SIGNATURE TECHNOLOGIES

SRa-9M Reference 200-W Tube Mono Amplifier
1 channel. 200 W. Discrete FET input driving four 6550 vacuum tubes in Class A; full-size bias pots with self-extinguishing LED indicators. Gold-plated input and output. Hardwood end caps and glass faceplate. FR 30 Hz-21 kHz ±1.5 dB; THD 0.03%; S/N 100 dB; dynamic headroom 1.2 dB. 19 x 8 x 15 in; 80 lb $5,600

SRa-4 Reference 70-W/ch Amplifier
2 channels. 70 W x 2 into 8 ohms; 135 W bridged mono. Discrete FET input drives two 6550 tubes per

channel in Class A; full-size bias pots with self-extinguishing LEDs; wood side panels; glass front-plate. Gold-plated input and output jacks. FR 30 Hz-21 kHz ±1.5 dB; THD 0.03%; S/N 100 dB; dynamic headroom 1.2 dB. 19 x 8 x 15 in; 40 lb $2,795

SRa-8 Reference 35-W/ch Amplifier
2 channels. 35 W x 2 into 8 ohms. Discrete FET input drives 2 EL34 tubes in Class A; full-size bias pots with LEDs. Gold-plated input and output jacks. FR 30 Hz-21 kHz ±2 dB; THD 0.035%; dynamic headroom 1.2 dB. 16 x 7 x 12 in; 35 lb $1,695

SONANCE

Sonamp 260 x 3 60-W/ch Amplifier
2 channels. 60 W x 2 into 8 ohms or 100 x 2 into 4 ohms. Class AB output. RCA output for daisy-chaining. On/off signal sensing; level controls; switches for 3 speaker pairs. THD 0.05% ...$499
Sonamp 260. As above without 3 speaker-pair switches $430

SONIC FRONTIERS

Power 3 220-W Tube Mono Amplifier
1 channel. 220 W into 2, 4, or 8 ohms from 20 Hz-20 kHz with 1% THD. Push-pull Class AB design; ultralinear operation; fully balanced. XLR input; 2 RCA XLR or RCA inputs; Cardas binding-post output connectors. 2-color LED Bias/Balance indicators; switch-selectable polarity and XLR/RCA inputs. S/N 110 dBA; slew rate 19 V/µs; damping factor 50. Black or gold. 5-yr parts-and-labor warranty. 18 x 9 x 22 in; 100 lb $9,999/pr

Power 2 110-W/ch Tube Amplifier
2 channels. 110 W x 2 into 2, 4, or 8 ohms, all from 20 Hz-20 kHz with 1% THD. Fully balanced operation; push-pull Class AB design; ultralinear operation. 2 XLR inputs; 4 XLR or RCA inputs; 2 pair Cardas binding posts. Switch-selectable input configuration; 2-color LED Bias indicators. S/N 110 dBA; slew rate 16 V/µs; damping factor 50. Black or gold. 5-yr parts-and-labor warranty. 18 x 9 x 22 in; 110 lb $4,999

AMP-5 650-W Amplifier
5 channels. 130 W x 5 rms into 8 ohms or 260 x 5 rms into 4 ohms, both with 0.05% THD. Class AB1. XLR input jack for each channel; RCA input jack for each channel; gold-plated binding post for each channel. Auto gain select for each channel when mixing XLR and RCA inputs. S/N 110 dB; ch sep 90 dB; slew rate 20 V/µs; damping factor 100; dynamic headroom 1.5 dB. 5-yr parts-and-labor warranty. 19 x 5¼ x 16 in; 80 lb $3,999

Power 1 55-W/ch Tube Amplifier
2 channels. 55 W x 2 into 8 ohms from 20 Hz-20 kHz with 1% THD. Push-pull class AB design; fully balanced operation; ultralinear operation. 2 XLR inputs; 4 RCA inputs; 2 output binding posts. Switch-selectable XLR/RCA input; LED Bias indicators. S/N 95 dBA; damping factor 35. Black or gold. 5-yr warranty. 15 x 9 x 20 in; 60 lb ...$2,499

SONOGRAPHE

SA400 200-W/ch Amplifier
2 channels. 200 W x 2 into 8 ohms from 20 Hz-20 kHz with 1% THD. Bipolar output stage; JFET input stage. 17 x 5¼ x 13 in $1,695
SA250. As above, 125 W x 2 .....$1,195

SONY

TA-N90ES 100-W/ch Amplifier
2 channels. 100 W x 2 into 8 ohms with 0.015% THD or 140 x 2 into 4 ohms with 0.01% THD. Power MOSFET output stage; triple push-pull complementary output stage; dual-mono design; discrete output transistors; nonmagnetic MOSFET frame; aluminum front panel; protection circuitry. XLR inputs. FR 1 Hz-20 kHz –3 dB; S/N 120 dB; damping factor 100 into 8 ohms at 1 kHz; dynamic headroom 2.8 dB. Black. 5-yr limited warranty. 17 x 6⅝ x 16½ in; 46 lb $2,700

TA-N55ES 110-W/ch Amplifier
2 channels. 110 W x 2 into 8 ohms with 0.004% THD, 150 x 2 into 4 ohms with 0.006% THD, or 300 x 1 into 8 ohms with 0.007% THD. Discrete output transistors; parallel push-pull output stage with 4 transistors per channel; thermal and short-circuit protection. Fixed and variable inputs; mono input/output; parallel A/B speaker terminals. Gain control; A/B speaker switching. Slew rate 120 V/µs; damping factor 100 into 8 ohms at 1 kHz; dynamic headroom 2.8 dB. 5-yr limited warranty. 17 x 6 x 14½ in; 27 lb $580

TA-N220 180-W Amplifier
4 channels. 45 W x 4 with 0.015% THD, 100 x 1 + 45 x 2 with 0.1% THD, or 100 x 2 with 0.1% THD, all into 8 ohms from 20 Hz-20 kHz. Variable line-level-gain and bridging controls; front-panel status indicators. Dynamic headroom 2.3 dB. 17 x 5⅜ x 14⅝ in; 20 lb $400

SOUNDOLIER

THP-CXB 100-W Mono Amplifier
1 channel. Designed for subwoofers. 100 W into 4 or 8 ohms. Class AB design; active crossover; short-circuit protection;. 17 x 4⅛ x 12¾ in ...$574

SOUNDSTREAM

RA100 MkIII 50-W/ch Multizone Amplifier
2 channels. Designed for one zone in multiroom system with SN1 controller. 50 W x 2 into 4 ohms from 20 Hz-20 kHz –0.5 dB with 0.1% THD. 1-ohm stability. Outputs for 4 speaker pairs; variable line-level outputs; input for local audio source; signal-processor loop. Remote volume and balance controls. Wall or shelf mountable. 9 x 1¼ x 14 in; 5 lb $595

SOUND VALVES

M60i 60-W Tube Mono Amplifier
1 channel. 60 W into 2, 4, or 8 ohms from 20 Hz-20 kHz with 0.5% THD; 30 W triode operation. Class AB1 operation; machined aluminum face; regulated soft-start power supply; ground lift; one 12AT7/6201, one 12AU7/5963, and two 6550C vacuum tubes. Gold-plated RCA connectors and binding posts. Visual bias indicator. S/N 100 dB. 3-yr limited parts-and-labor warranty. 9½ x 7½ x 12 in; 32 lb $2,599/pr

VTA-70i 35-W/ch Tube Amplifier
2 channels. 35 W x 2 or 70 W x 1 into 8 ohms at 1 kHz with 0.25% THD. Class AB1 operation; machined aluminum face; four matched EL34/6CA7 and two 6GH8A tubes. Gold-plated RCA connectors and binding posts. Visual bias indicator. FR 10 Hz-45 kHz –3 dB; S/N 80 dB. 3-yr limited parts-and-labor warranty. 13 x 7 x 9½ in; 32 lb ...$1,099
Kit version $899

SV-250 130-W/ch Amplifier
2 channels. 130 W x 2 into 4 ohms or 130 x 2 into 8 ohms from 20 Hz-20 kHz with 0.03% THD. Class AB output operation; extruded aluminum sculpted faceplate; MOSFET operation. Slew rate 30 V/µs $699

SUNFIRE

Cinema Grand 1,000-W Amplifier
5 channels. Designed for impedance loads as low as 1 ohm. 200 W x 5 into 8 ohms or 400 x 5 into 4 ohms. Crystal base with damping supports for vibration isolation. XLR inputs. Auto-on; power-supply energy meter on front panel. 5-yr warranty. 19 x 6½ x 15¾ in; 44 lb $2,375

Sunfire 300-W/ch Amplifier
2 channels. Designed to drive any impedance load. 300 W x 2 into 8 ohms, 600 x 2 into 4 ohms, 1,200 x 2 into 2 ohms, or 2,400 x 2 into 1 ohm. Crystal base with damping supports for vibration isolation. Power-supply energy meter on front-panel. 19 x 6½ x 15¾ in; 43 lb $2,175

SUTHERLAND

A-2000 100-W Mono Amplifier
1 channel. 100 W. All-MOSFET signal path; output protection outside the signal path for unrestricted dynamics; comprehensive power-supply monitoring mutes the audio signal during power-up, power-down or line voltage brown-outs.. Machined-aluminum and clear anodized case. 9⅝ x 5¼ x 26 in; 17 lb $12,000/pr

SYMPHONIC LINE

Kraft Reference 400 500-W Mono Amplifier
1 channel. 500 W into 8 ohms or 1,000 x 1 into 4 ohms. Class A operation. RCA and XLR inputs and outputs. FR 1 Hz-1,000 kHz; damping factor 1,600. 8-yr warranty. 24 x 14 x 30 in $36,000/pr

Kraft Reference 250 280-W Mono Amplifier
1 channel. 280 W into 4 ohms or 550 W into 8 ohms. Class A operation. RCA and XLR inputs and outputs. FR 1 Hz-700 kHz; damping factor 1,200. 8-yr warranty. 24 x 14 x 15 in; 105 lb ...$18,500/pr

Kraft Reference 250 280-W/ch Amplifier
2 channels. 280 W x 2 into 8 ohms or 550 x 2 into 4 ohms. Class A operation. RCA and XLR inputs and outputs. FR 1 Hz-700 kHz; damping factor 1,200. 8-yr warranty. 24 x 14 x 15 in; 120 lb $12,500

M 300 200-W Mono Amplifier
1 channel. 200 W into 8 ohms or 400 into 4 ohms. Class A/AB operation; internal protection circuits. RCA and XLR inputs and outputs. FR 1 Hz-500 kHz; damping factor 1,000. 5-yr warranty. 19 x 7 x 16 in $8,500/pr

S 200 150-W/ch Amplifier
2 channels. 150 W x 2 into 8 ohms or 300 W x 2 into 4 ohms. Dual-mono design; Class A/AB operation; internal protection circuits. RCA and XLR inputs and outputs. FR 2 Hz-450 kHz; damping factor 1,000. 5-yr warranty. 19 x 7 x 16 in; 75 lb ...$4,295

TANDBERG

TPA 4147 360-W Amplifier
3 channels. 120 W rms x 3 into 8 ohms. FR 20-20,000 Hz +0, –1 dB; S/N 90 dBA. 28 lb ...$1,599

TPA 4036 100-W/ch Amplifier
2 channels. 100 W rms x 2 into 8 ohms or 160 x 2 into 4 ohms. Zero-negative-feedback design; local error-correction circuitry in the output stage. FR 20 Hz-20 kHz +0, –1 dB; S/N 90 dBA. 17¼ x 3¼ x 15 in; 22 lb $1,499

TPA 4146 120-W/ch Amplifier
2 channels. 120 W rms x 2 into 8 ohms. FR 20-20,000 Hz +0, –1 dB; S/N 90 dBA. 22 lb ...$1,299

TAURUS AUDIO

Model 300B 25-W/ch Tube Amplifier
2 channels. 25 W x 2. One 12AX7, two 6N8P, and four 300B tubes; stainless steel chassis. Gold-plated RCA input. Ultralinear push-pull circuit; detachable AC power cord. Cover-grid optional. FR 10 Hz-50 kHz ±1.5 dB; THD 1%; S/N 85 dB. 15¾ x 10½ x 9¾ in; 33 lb $1,800

Model 120S 70-W/ch Tube Amplifier
2 channels. 70 W x 2. One 12AX7, two 6N8P, and four KT88 tubes; fully symmetrical output transformer; stainless-steel chassis. Gold-plated RCA input. Ultralinear push-pull circuit; detachable AC power cord. FR 10 Hz-50 kHz ±1.5 dB; THD 1%; S/N 90 dB. 15¾ x 11 x 9¾ in; 40 lb $1,400

Model 70Mk3 50-W/ch Tube Amplifier
2 channels. 50 W x 2. One 12AX7, two 6N8P, and four EL 34 tubes; stainless-steel chassis. Gold-

one bell, one whistle,

and a button to turn them off.

It's not about a pile of features you'll never use. It's about delivering the best sound for the dollar. The NAD 317 integrated amplifier is built simple to provide - foremost - a faithful and musical performance. And, as with all NAD products, it maintains a reputation for true value, performance and simplicity.

Oh... it has one more feature, the ability to make you smile when you find out the price.

NAD 317 Integrated Amplifier
80 watts into 8 ohms, bridgeable to 240 watts,
6 line level inputs (including 2 tape in/outputs),
pre-out/main in, all discrete circuitry,
defeatable Soft Clipping™, remote control with NAD Link.

pure.and simple.

NAD

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plated RCA input. Ultralinear push-pull circuit; detachable AC power cord. Cover-grid optional. FR 10 Hz-50 kHz ±1.5 dB; THD 1%; S/N 90 dB. 15¾ x 11 x 9¾ in; 33 lb $980

TECHNICS
SE-A1000 65-W/ch Amplifier
2 channels. 65 W x 2 into 8 ohms from 20 Hz-20 kHz with 0.01% THD. MOS Class AA circuitry with MOSFET devices in Class A voltage-controlled amp and bipolar transistors in current-drive amp. Analog power-level meters $730

THETA DIGITAL
Dreadnaught 1,000-W Amplifier
5 channels. 200 W x 5 into 8 ohms or 400 x 5 into 4 ohms. Zero feedback. XLR and RCA inputs for each channel. 12-V triggered power switch. Black or silver finish. 5-yr warranty $5,400
As above, 4 channels $4,600
As above, 3 channels $3,800
As above, 2 channels $3,000

THORENS
TTA 2000 35-W/ch Amplifier
2 channels. 35 W x 2 into 8 ohms or 60 x 2 into 4 ohms. Gold-plated RCA jacks. Phase control for power lines. FR 10 Hz-150 kHz –0.5 dB; THD 1% at 1 kHz; S/N 107 dB. 8¼ x 3⅜ x 13⅜ in; 19 lb $1,300

TMA 2000 190-W Mono Amplifier
1 channel. 190 W into 8 ohms or 240 W into 4 ohms. Phase control for power lines. FR 10 Hz-100 kHz –0.5 dB; THD 0.06% at 1 kHz; damping factor 120 .....$1,250

TUBE RESEARCH LABS
GT400 400-W Tube Mono Amplifier
1 channel. 400 W into 2, 4, or 8 ohms from 20 Hz-20 kHz with 0.3% THD. Triode design without printed circuit board; 24 vacuum tubes; 2½-inch military-grade meter for continuously adjustable bias. 1-in thick black anodized plates for front and rear that double as handles; 24k polished gold plate to cover transformer and capacitor banks. 5-yr warranty. 19 x 12 x 37 in; 210 lb $30,000/pr
TR300. As above, 300 W. Switchable triode/pentode design; 16 tubes. 24 x 12 x 20 in $19,000/pr
GT100. As above, 100 W x 1. 21 x 12½ x 11 in; 75 lb $10,000/pr
ST100. As above, 100 W x 2. 16 tubes. 24 x 12 x 20 in; 125 lb $9,000

TUBE TECHNOLOGY
Synergy DMA 150-W/ch Tube Amplifier
2 channels. 150 W x 2 rms into 8 ohms from 12 Hz-58 kHz at 1% THD. 6 EL34 pentode tubes per channel; ultralinear operation. 1 RCA input per channel. S/N 96 dB. 18½ x 6 x 18½ in; 102 lb $10,000

Genesis Signature 100-W Tube Mono Amplifier
1 channel. 100 W rms into 8 ohms from 12 Hz-58 kHz with 1% THD. EL34/6CA7 tubes; pentode output stage; push-pull ultralinear circuitry. 1 RCA input. Black; available in silver. 14 x 6 x 11 in $7,300

Unisis Signature 70-W Tube Mono Amplifier
1 channel. 70 W x 1 rms or 35 x 2, both into 8 ohms from 12 Hz-58 kHz with 1% THD. Push-pull ultralinear-design pentode tube amp; EL84 tubes. RCA input. S/N 96 dB. Black; available in silver. 14 x 6 x 11 in; 27 lb $2,900

Syrinx Stereo 45-W/ch Tube Amplifier
2 channels. 45 W x 2 rms or 90 x 1, both into 8 ohms from 16 Hz-55 kHz with 1% THD. Auto bias circuit; pentode output stage; EL34 tubes. RCA input and output. Black; available in silver. 14 x 3½ x 10¾ in $1,950

ULTECH AUDIO
UPA-650T 650-W Amplifier
5 channels. 130 W x 5 into 8 ohms from 20 Hz-20 kHz with 0.15% THD. Class AB design. 5 inputs. S/N 72 dB. Black anodized finish. 3-yr parts-and-labor warranty. 85 lb $3,495

VAC
R140 MkIII 130-W Tube Mono Amplifier
1 channel. 130 W into 2, 4, or 8 ohms. All Class A triode-tube circuitry; 300B output triodes; 300B sentry tube monitor circuit; zero or variable feedback; variable grounding; Class A direct-coupled input circuit. 18 x 8¾ x 18 in; 125 lb $11,290

R70/70 MkIII 65-W/ch Tube Amplifier
2 channels. 65 W x 2 into 2, 4, or 8 ohms. Class A triode-tube circuit; 300B output triodes; 300B sentry tube monitor circuit; single-chassis dual-mono design; independent power cords for each channel; zero or variable feedback; variable grounding; Class A direct-coupled input circuit. FR 6 Hz-90 kHz –5 dB. 18 x 8¾ x 18 in; 125 lb $11,290

PAS-90 90-W/ch Tube Amplifier
2 channels. 90 W x 2 into 2, 4, or 8 ohms from 20 Hz-20 kHz. All-tube circuitry; nonmagnetic chassis; enclosed tubes. RCA input; speaker binding-post outputs. Rack mountable. Wood, leather, or custom finishes optional. Powder-coat finish. 5-yr warranty. 20⅞ x 10½ x 16¾ in; 78 lb $6,890

R30/30 MkIII 32-W/ch Tube Amplifier
2 channels. 32 W x 2 into 2, 4, or 8 ohms. All Class A triode tube circuitry; 300B output triodes; 300B sentry tube monitor circuit; zero or variable feedback; variable grounding; nonmagnetic chassis; Class A direct-coupled input circuit. FR 6 Hz-90 kHz –0.5 dB. 18 x 7½ x 15½ in; 100 lb $6,490

PAM-160 160-W Tube Mono Amplifier
1 channel. 160 W x 1 or 85 W x 2, both into 2, 4, or 8 ohms from 20 Hz-20 kHz. All-tube circuitry; variable feedback; switchable between triode and ultralinear operation; enclosed tubes; may use KT88, KT90, or 6550 output tubes. RCA input; binding-post outputs. Illuminated analog bias meter; individual output tube bias controls; rack mountable. Wood, leather, or custom finishes optional. Powder-coat finish. 20⅞ x 10½ x 16¾ in; 60 lb $6,190

PTS-120 60-W/ch Amplifier
2 channels. 60 W x 2 rms into 8 ohms from 20 Hz-20 kHz. Non class AB design; nonmagnetic chassis. RCA inputs; speaker binding-post outputs. Rack mountable. Wood, leather, or custom finishes optional. Powder-coat finish. 5-yr warranty. 20⅞ x 7¼ x 16¾ in; 38 lb $4,990

PTT-60 180-W Amplifier
3 channels. 60 W x 3 rms from 20 Hz-20 kHz. Class AB operation. RCA inputs; binding-post outputs. Rack mountable. Custom finishes optional. Powder-coat finish. 5-yr warranty. 20⅞ x 7¼ x 16¾ in; 45 lb $4,990

PA35/35 37-W/ch Tube Amplifier
2 channels. 37 W x 2 into 2, 4, or 8 ohms. All-triode operation; direct-coupled Class A input; variable feedback; switchable grounding modes; nonmagnetic chassis. Bias monitors and adjustments. FR 6 Hz-90 kHz –0.5 dB. 18 x 8 x 14 in; 60 lb $3,290

PA80/80 80-W/ch Tube Amplifier
2 channels. 80 W x 2 into 2, 4, or 8 ohms. All-tube circuitry with 4 Golden Dragon KT88M output vacuum tubes; direct-coupled Class A input. Bias monitors and adjustments. FR 6 Hz-90 kHz –0.5 dB. 18 x 8 x 14 in; 60 lb $3,290

VDN
REX 100 100-W Mono Amplifier
1 channel. 100 W into 8 ohms from 10 Hz-80 kHz with 0.2% THD. All-triode operation. 3 selectable inputs; 5-way terminal outputs; no switched AC outlets. Input-level control. S/N 85 dBA; slew rate 25 V/µs; damping factor 80; dynamic headroom 3 dB. Italian marble front plate. 3-yr warranty. 12 x 7 x 18 in $6,700/pr

VIRTUAL IMAGE
StereoBloc Twenty Forty 40-W Tube Amplifier
2 channels. 20 W x 2 or 40 x 1 rms, both into 2, 4, or 8 ohms. Pentode gain stage direct-coupled to triode inverter coupled to fixed-bias push-pull 6CA7 output stage for each channel; nonregulated power supply. Cardas gold and rhodium RCA inputs; gold-plated beryllium-copper military-spec octal sockets; gold-plated binding posts. 3-position switch for negative feedback; digital bias meter. 2-ohm tap optional. FR 20 Hz-20 kHz ±0.25 dB; THD 1%; S/N 80 dB; dynamic headroom 3 dB. 3-yr warranty. 19¾ x 8½ x 13¾ in; 38 lb $3,500

WAAS AUDIO-DIGITAL
Model 1400 700-W/ch Amplifier
2 channels. 700 W x 2 from into 8 ohms 3 Hz-35 kHz with 0.4% THD. Class A operation; tube/MOSFET hybrid design. 2 RCA inputs; 2 outputs. Optical volume controls. 2 XLR inputs optional. S/N 100 dBA; slew rate 100 V/µs; dynamic headroom 1.5 dB. 3-yr warranty. 18 x 5¼ x 22 in; 56 lb ...$6,000

Model 1200 1,200-W Amplifier
6 channels. 200 W x 6 into 4 or 8 ohms from 3 Hz-40 kHz with 0.3% THD. Class A operation; tube/MOSFET hybrid design; linear power supply. 6 RCA inputs; 6 outputs. 6 XLR inputs optional. S/N 100 dBA; slew rate 100 V/µs; dynamic headroom 1.5 dB. 3-yr warranty. 54 lb $3,400

WOLCOTT AUDIO
Presence P220M 250-W Tube Mono Amplifier
1 channel. 250 W with 0.01% THD. Auto bias circuitry. RCA and XLR inputs; 2 sets proprietary outputs. Tube-status LED indicator. FR 3 Hz-66 kHz –3 dB; S/N 105 dB; dynamic headroom 1 dB. Satin aluminium and black lacquer with acrylic sides. 5-yr amp except tubes warranty $8,495/pr
Presence P220M Gold. As above with gold panel and trim $8,795/pr

WOODSIDE
MA100 100-W Tube Mono Amplifier
1 channel. 100 W into 8 ohms or 125 x 1 into 4 ohms. Four 6550 vacuum tubes; 6SN7GT/6SL7GT input tubes. FR 8 Hz-60 kHz; S/N 90 dB. 17 x 7½ x 15½ in; 38 lb $5,495
STA50. As above, 50 W x 2 into 8 ohms or 70 x 2 into 4 ohms. Single 6500 vacuum tube $2,995

XANTECH
PA 640 240-W Amplifier
6 channels. 40 W x 6 or 100 x 3, both into 8 ohms. Discrete drivers and output transistors. 6 line-level RCA inputs; 4 screw terminal plug-in connectors for speaker connection; remote on/off jack. Input-level adjustments for each channel- and amp-pairs. S/N 96 dB; slew rate 20 V/µs; damping factor 100. Black anodized. 12¼ x 3⅝ x 13½ in; 14 lb $1,000

YAMAHA
MX-1 200-W/ch Amplifier
2 channels. 200 W x 2 rms into 8 ohms with 0.008% THD or 350 x 2 rms into 2 ohms with 0.09% THD. Class A operation; gold-plated PC-board wiring; linear damping circuit. Link for CX-1 or CX-2 preamp; 3-way binding posts; gold-plated solid-brass inputs. S/N 125 dB; damping factor 350. 17⅛ x 4⅝ x 19⅛ in; 53 lb $1,199
MX-2. As above, 150 W x 2 rms into 8 ohms with 0.008% THD or 230 x 2 rms into 2 ohms with 0.09% THD. 17⅛ x 4⅝ x 19⅛ in; 42 lb $899

Integrated Amplifiers

ACCUPHASE

E-406 V 170-W/ch Integrated Amplifier
2 channels. 170 W x 2 into 8 ohms from 20 Hz-20 kHz with 0.02% THD or 220 x 2 into 4 ohms. Tuner input; 2 line-level inputs; 2 tape inputs; XLR CD input; XLR line-level input; preamp output; outputs for 2 speaker pairs. Triple parallel push-pull configuration; current-feedback design allows stable operation; logic-controlled relays permit shorter signal paths. Power-level meters; remote control with switching for line and volume. S/N 127 dBA; damping factor 120 into 8 ohms at 50 Hz. 19 x 17 x 16⅝ in $7,000

E-306V 100-W/ch Integrated Amplifier
2 channels. 100 W x 2 into 8 ohms from 20 Hz-20 kHz. 3 line-level inputs; tuner input; tape input; CD input; XLR CD input; XLR line-level input; headphone jack; line-level outputs. Class AB design; current-feedback circuit-topology; parallel push-pull output stage; logic-controlled relays; separate power supplies for amp and preamp sections; infrasonic filter. Remote source switching and volume control; loudness compensator switch; power-level meters. S/N 100 dB; damping factor 100 into 8 ohms at 50 Hz. 3-yr warranty. 18¼ x 6¼ x 16½ in; 46 lb $4,200
AD-10. Analog Input Board $800
Line-10. Line-level inputs $200

E-210 80-W/ch Integrated Amplifier
2 channels. 80 W x 2 into 8 ohms or 110 x 2 into 4 ohms. XLR inputs; 4 line-level inputs; headphone jack. Current-feedback circuit topology prevents phase shifts; logic-controlled relays for optimum signal routing; infrasonic filter; remote control with source switching and volume adjustment. FR 20 Hz-20 kHz; THD 0.04%; damping factor 110 into 8 ohms at 50 Hz. 18¼ x 5⅞ x 16⅞ in; 40 lb ...$2,475
E-210A. As above with phono stage $2,670

ACURUS

DIA150 150-W/ch Integrated Amplifier
2 channels. 150 W x 2 into 8 ohms from 20 Hz-20 kHz with 0.09% THD. Tape output. Direct Input design with 1 gain block from source to speaker outputs. Remote volume, balance, and switching. 17 x 5 x 14 in; 38 lb $1,499

AMC

CVT3030a 30-W/ch Tube Integrated Amplifier
2 channels. 30 W x 2 into 8 ohms from 45 Hz-20 kHz with 1.0% THD. 5 line-level, 1 phono, and 1 tape-monitor input; 4- and 8-ohm speaker outputs; record output; 5-way binding posts; headphone jack; 2 switched and 1 unswitched AC outlets. Pure Class A circuitry; 2 EL34 output tubes per channel; 7 high-voltage MOSFETS per channel; fixed bias on output tubes; 2 low-noise fans. Tape monitor and tone-bypass switches. S/N 80 dBA; ch sep 50 dB. Black. 17 x 5 x 13 in; 34 lb $1,000

Model 3050a 45-W/ch Integrated Amplifier
2 channels. 45 W x 2 into 8 ohms from 20 Hz-20 kHz with 0.05% THD. 3 line-level, 1 phono, and 1 tape-monitor input; pre-out/main-in loop; record output; 5-way binding post; headphone jack; switched and unswitched AC outlets. Class AB design; high-output-current devices with optimized power supply designs and enhanced virtual image topology. Remote input-select and volume control; tape monitor; tone-bypass switch. S/N 80 dBA; ch sep 65 dB. Black. 17 x 3½ x 13 in; 16 lb $500

Model 3025a 30-W/ch Integrated Amplifier
2 channels. 30 W x 2 into 8 ohms from 20 Hz-20 kHz with 0.05% THD. 3 line-level, 1 phono, and 1 tape-monitor input; pre-out/main-in loop; record output; 5-way binding-posts; headphone jack; switched and unswitched AC outlets. Class AB design; high-output-current devices with optimized power-supply designs and enhanced virtual image topology. Remote input and volume controls; tone-bypass switch. S/N 80 dBA; ch sep 65 dB. Black. 17 x 3½ x 13 in; 15 lb $400

ANTHEM

Integrated 2 80-W/ch Integrated Amplifier
2 channels. 80 W x 2 rms into 8 ohms or 130 x 2 rms into 4 ohms both with 0.05% THD. CD, tuner, and aux inputs; line-level and tape outputs; speaker binding-posts; front-panel headphone jack. Vacuum tube input stage; solid-state Class AB output stage. Remote volume, muting, and source-selection control. S/N 90 dBA; slew rate 20 V/µs; damping factor 100; dynamic headroom 1.5 dB. Black or silver. 5-yr limited warranty. 19 x 5¼ x 16 in; 35 lb $1,699

ARCAM

Alpha 10AV 100-W Dolby Digital/DTS Integrated Amplifier
5 channels. Dolby Digital, DTS, and Dolby Pro Logic modes. 100 W x 5 rms into 8 ohms from 20 Hz-20 kHz. 5 line-level audio inputs; 2 digital and optical audio inputs; 1 component-, 4 composite, and 4 S-video inputs; 2 tape loops; line-level output; 1 component-, 2 composite-, 2 S-video outputs. Modular design. Charcoal finish. 17 x 4½ x 15 in; 22 lb $3,099

Alpha 10 100-W/ch Integrated Amplifier
2 channels. 100 W x 2 rms into 8 ohms from 20 Hz-20 kHz. 5 line-level inputs; 2 tape loops; preamp output. Modular design. Charcoal finish. 17 x 4½ x 15 in; 22 lb $1,599

AV50 250-W A/V Integrated Amplifier
5 channels. Dolby Pro Logic. 50 W x 5. 4 composite-video inputs; 7 line-level audio inputs. Optional external-decoder socket allows connection to outboard 5.1-channel surround decoder. Remote control. MM phono input optional. 14 lb $1,299

Alpha 9 70-W/ch Integrated Amplifier
2 channels. 70 W x 2 cont into 8 ohms. Remote control. Phono input optional. 13 lb $999
Alpha 8. As above, 50 W x 2; MM input; remote control optional. 10 lb $699
Alpha 7. As above, 40 W x 2; without remote control. 9 lb $449

EarMax Pro 100-mW/ch Tube Integrated Headphone Amplifier
2 channels. 100 mW x 2. RCA input; phone output. Class A operation; triode operation; no transformers in output stage. Volume control. 3¾ x 3½ x 4 in; 1 lb $750
Isolation platform for above $195

Earmax 100-mW/ch Tube Integrated Headphone Amplifier
2 channels. 100 mW x 2. RCA inputs; headphone jack. Class A output stage; computer-optimized external power supply. 3¾ x 3½ x 4 in; 1 lb $575

AUDIO ELECTRONICS

AE-20I 20-W/ch Tube Integrated Amplifier
2 channels. 20 W x 2 into 8 ohms from 20 Hz-20 kHz with 1.5% THD. 3 RCA inputs; 5-way binding-post outputs. Push-pull Class A circuitry. S/N 80 dB; ch sep 70 dB. Steel-coated black-epoxy finish. 3-yr warranty. 14 x 6¾ x 11 in; 25 lb $999

AUDIOLAB

Model 8000S 60-W/ch Integrated Amplifier
2 channels. 60 W x 2 into 8 ohms or 100 x 2 into 4 ohms. 6 line-level inputs; 3 tape loops; 2 preamp outputs; headphone jack. 5 user-selectable pre/power modes; auto muting; remote control. FR 1 Hz-65 kHz; THD 0.07%; S/N 80 dB. 17½ x 3 x 13 in; 17 lb $1,095

Model 8000A MkIII 60-W/ch Integrated Amplifier
2 channels. 60 W x 2 into 8 ohms or 100 x 2 into 4 ohms. MM and MC phono inputs; 3 tape loops; pre-out/main-in loops; outputs for 2 speaker pairs; headphone jack. Overload protection. Separate input and record selectors; defeatable phase-compensated tone controls; mute. FR 1 Hz-65 kHz; THD 0.05%; S/N 78 dB MM, 75 dB MC, 80 dB line. 17½ x 3 x 13 in; 17 lb $895

Model 8000LX 60-W/ch Integrated Amplifier
2 channels. 60 W x 2 into 8 ohms or 100 x 2 into 4 ohms. 6 line-level inputs; 3 tape loops; pre-out/main-in loop; headphone jack. Auto muting. FR 1 Hz-65 kHz; THD 0.07%; S/N 80 dB. 17½ x 3 x 13 in; 16 lb $695

AUDIO NOTE

Meishu Phono 8-W Tube Mono Integrated Amplifier
1 channel. 8 W. CD, tuner, and aux/phono inputs. Single-ended Class A circuitry; tube-rectified power supplies. 88 lb $6,195

Meishu Line 8-W/ch Tube Integrated Amplifier
2 channels. 8 W x 2. CD, tuner, and aux/phono inputs. Single-ended Class A circuitry; silver-wired power supplies. 31 lb $5,295

UK Series
Soro-Phono 17-W/ch Tube Integrated Amplifier
2 channels. 17 W x 2. Combines Audio Note M1 phono preamplifier and P2 SE tube power amplifier in single chassis. 17½ x 5¾ x 17½ in $3,495
Soro-Line. As above with M1 line preamp ...$2,995

OTO-Phono 10-W/ch Tube Integrated Amplifier
2 channels. 10 W x 2. Combines M1 Phono preamplifier and P1 SE power amplifier in single chassis. 17½ x 5¾ x 17½ in $2,495
OTO-Line. As above with M1 Line preamplifier; no phono input $1,995

AUDIO RESEARCH

CA50 45-W/ch Tube Integrated Amplifier
2 channels. 45 W x 2 into 8 or 4 ohms. 6 RCA inputs; subwoofer output; 4- and 8-ohm speaker outputs. Power, muting, record-out selector; monitor switch; remote control. 3-yr warranty $3,495

AUDIRE

Adagio 60-W/ch Integrated Amplifier
2 channels. 60 W x 2 into 8 ohms from 20 Hz-20 kHz or 100 x 2 into 4 ohms. 6 line-level inputs; 2 tape loops; pre-out/main-in loops; gold-plated 5-way binding-post for 2 speaker pairs. One FET op-amp per channel in preamp stage; all-discrete power amp with MOSFET output stage. Balance control. Slew rate 45 V/µs; damping factor 250. 3-yr parts-and-labor warranty. 19 x 5¼ x 9 in; 22 lb $950

BEL CANTO DESIGN

SETi40 40-W/ch Tube Integrated Amplifier
2 channels. 40 W x 2 rms into 8 ohms. 3 RCA inputs. Pure Class A1 design; single-ended triode operation; auto bias circuitry. Remote volume/mute control; remote balance, standby, and input-selector controls; 4/8-ohm switch. FR 5 Hz-35 kHz; S/N 96 dB; ch sep 70 dB; damping factor 3; dynamic headroom 0.5 dB. Black. 3-yr warranty. 19½ x 11 x 15 in; 64 lb $5,200
Gold Ring package $360/pr
Tube Cage $180

Celio 50-W/ch Integrated Amplifier
2 channels. 50 W x 2 or 100 x 1, both into 8 ohms. XLR inputs. Class A/AB design. FR 10 Hz-20 kHz; THD 0.1%. 68 lb $2,990

BRYSTON

B-60 60-W/ch Integrated Amplifier
2 channels. 60 x 2 into 8 ohms and 100 x 2 into 4 ohms. Gold-plated RCA input and output connec-

tors; 4 line-level inputs; 1 tape loop; 5-way speaker binding post; headphone output; pre-out/main-in loops. Input buffer to reduce noise and distortion. Remote control. 20-yr warranty $1,795
As above without remote control $1,495

CARVER

CM-2002 105-W/ch Integrated Amplifier
2 channels. 105 W x 2 rms into 8 ohms from 20 Hz-20 kHz with 0.08% THD. CD, tuner, and aux/phono inputs; 2 tape loops; external-processor loop. D/A converter. Dual power meters; removable rack handles; remote volume control; MM/MC phono switch. S/N 98 dB; ch sep 70 dB. Black. 28 lb $899

CARY AUDIO DESIGN

CAD-845SEI 25-W Tube Mono Integrated Amplifier
2 channels. 25 W x 2 into 8 ohms from 20 Hz-23 kHz with 0.5% THD. 3 RCA inputs; two 5-way binding posts. Pure class A design. Balance control. S/N 82 dB. Black anodized aluminum. 3-yr warranty. 8½ x 17 x 17 in; 90 lb $7,495
Remote volume control $499

CAD-300SEI 11-W/ch Tube Integrated Amplifier
2 channels. 11 W x 2 into 4 ohms. Single-ended Class A circuitry; 200%-duty-cycle air-gapped wax-impregnated output transformer wound with OFC wire; silver double-E Teflon wire; point-to-point wiring; two 300B triode output tubes in Class A single-ended configuration; three 6SN7 input driver tubes; oil-filled coupling capacitors. 24k gold-finished faceplate and knobs optional. Remote control optional. FR 20 Hz-20 kHz ±0.75 dB; S/N 80 dB. 14 x 8 x 14 in; 51 lb $3,995

SLI-80 80-W/ch Tube Integrated Amplifier
2 channels. 80 W x 2. Push-pull ultra-linear circuitry; two 12AU7 input buffer preamp tubes; two 6SN7 pre-driver/phase inverter tubes; four Teslovak KT-88 output tubes; two CV729/5U4 rectifier tubes. FR 19 Hz-23 kHz ±0.5 dB. 17 x 7 x 16 in; 42 lb $2,795
Remote control $499

SLI-50 50-W/ch Tube Integrated Amplifier
2 channels. 50 W x 2. Push-pull pure Class A circuitry; 150% duty cycle for all transformers; two 6SN7 pre-driver/phase inverter tubes; two 12AU7 input buffer preamplifier tubes; four E34L output tubes; two CV729/5U4 rectifier tubes. FR 19 Hz-23 kHz ±0.5 dB; damping factor 36. 7 x 17 x 16 in; 42 lb $2,295
Remote control $499

CELLO

Cello Integrated Amp 50-W/ch Integrated Amplifier
2 channels. 50 W x 2 rms into 8 ohms or 100 x 2 rms into 4 ohms, both from 20 Hz-20 kHz with 0.1% THD. 5 RCA inputs; RCA tape output. Remote control. Slew rate 50 V/µs; dynamic headroom 1.5 dB. Anodized aluminum. 19 x 3½ x 15 in; 22 lb $3,500

CLASSÉ

CAP-150 150-W/ch Integrated Amplifier
2 channels. 150 W x 2 rms into 8 ohms from 20 Hz-20 kHz with 0.005% THD. 4 RCA inputs; tape input; XLR input; power-amp input; tape output; preamp output. Class AB output operation. Remote handset for volume and mute control. MM/MC phono board optional. S/N 110 dBA. Black or silver. 5-yr warranty. 19 x 5 x 17 in; 35 lb $1,995

CAP-80 100-W/ch Integrated Amplifier
2 channels. 100 W x 2 rms into 8 ohms. 4 RCA inputs; XLR input; tape input; preamp output; tape output. Class AB output operation. Full-function remote control; front-panel volume-level display. S/N 90 dBA. Black or silver. 19 x 4½ x 14¼ in; 25 lb $1,395

CONRAD-JOHNSON

Premier 150CA 150-W/ch Integrated Amplifier
2 channels. 150 W x 2 rms into 8 ohms from 20 Hz-20 kHz with 1% THD. 7 line-level inputs; 2 tape loops; 2 tape outputs; preamp output. Remote control. Aluminum or yellow metal. 3-yr warranty $4,995

CAV 50 45-W/ch Tube Integrated Amplifier
2 channels. 45 W x 2 into 4 or 8 ohms from 30 Hz-15 kHz with 1% THD. 6 line-level inputs; 1 preamp output. Class AB design. Champagne-gold front panel. 3-yr warranty. 40 lb $2,495

CONTINUUM

Unison 100-W/ch Integrated Amplifier
2 channels. 100 W x 2 into 8 ohms, 200 x 2 into 4 ohms, or 400 x 2 into 2 ohms, all rms from 5 Hz-20 kHz with 0.2% THD. 4 RCA inputs; tape monitor loop; subwoofer output; preamp output. Class A/AB operation. Remote standby and volume controls; monitor switch; low-frequency contour control. S/N 96 dB; ch sep 100 dB at 1kHz; slew rate 50 V/µs; damping factor 120; dynamic headroom 2.4 dB. Black or silver finish. 5-yr warranty. 17 x 6 x 14 in; 45 lb $2,995

CREEK

Model 5250SE 60-W/ch Integrated Amplifier
2 channels. 60 W x 2 into 8 ohms from 20 Hz-20 kHz with 0.03% THD. 2 tape loops; preamp output. Class AB design; 200-VA toroidal transformer; cascode differential input stage; FET differential voltage amp and MOSFET drivers. Separate listen and record-selector switches; 2-zone speaker switching; remote control. S/N 105 dB; slew rate 60 V/µs. Black. 16½ x 2½ x 11 in; 11lb $1,195

Model 5250 50-W/ch Integrated Amplifier
2 channels. 50 W x 2 into 8 ohms from 20 Hz-20 kHz with 0.03% THD. 2 tape loops; preamp output. Class AB design; cascode differential input stage; FET differential voltage amp and MOSFET drivers. Separate listen and record selector switches; remote control. S/N 105 dB; slew rate 60 V/µs. Black. 16½ x 2½ x 11 in; 10 lb $795
5250R. As above with remote control $995
As above with MC board .....$95 extra
As above with MM board .....$60 extra

Model 4330R 35-W/ch Integrated Amplifier
2 channels. 35 W x 2 into 8 ohms from 20 Hz-20 kHz with 0.03% THD. Class AB passive preamp. Remote volume/mute control. Black. 16½ x 2½ x 8 in $595
Model 4330. As above without remote volume control $495
As above with MC phono board .....$90 extra
As above with MM phono board .....$60 extra

DB-9 Headphone Integrated Amplifier
2 channels. Alps volume control. FR 20 Hz-75 kHz –1 dB; THD 0.02% $200
As above with standard volume control $150

DENON

PMA-2000R 80-W/ch Integrated Amplifier
2 channels. 80 W x 2 rms into 8 ohms from 20 Hz-20 kHz with 0.07% THD, or 160 x 2 into 4 ohms at 1 kHz with 0.7% THD. CD, tuner, and aux/phono inputs; tape input; DVD input; gold-plated speaker terminals; biwire outputs; tape output. Push-pull circuitry; dual transformers; high-speed rectifier circuit. Remote control; MM/MC phono EQ. S/N 110 dB line, 91 dB MM, 76 dB MC. Black front panel. 17⅛ x 7⅛ x 18¾ in; 44 lb $999

PMA-525R 50-W/ch Integrated Amplifier
2 channels. 50 W x 2 into 8 ohms or 150 x 2 into 2 ohms, both from 20 Hz-20 kHz with 0.05% THD. MM phono input; CD, tape, aux, and tuner inputs; tape outputs; switched AC outlets. A/B speaker switching; system remote control. S/N 86 dB MM, 107 dB line. Black front panel. 17⅛ x 4¾ x 11⅛ in; 14 lb $399

DGX

DDA-1 100-W/ch Integrated Amplifier
2 channels. 100 W x 2 into 8 ohms or 140 x 2 into 4 ohms, both from 20 Hz-20 kHz with 0.025% THD. Coaxial and optical digital inputs. Digital signal processing; dual-mono design; phase and amplitude correction for DGX DDL-1 speakers. S/N 86 dB analog; ch sep 92 dB; damping factor 150 from 20 Hz-20 kHz. 16½ x 4¾ x 14¼ in $995

DPA DIGITAL

Renaissance 33-W/ch Integrated Amplifier
2 channels. 33 W x 2. 4 line-level inputs; one MM phono input; headphone outputs; tape loop. Class A output stage; high-gain bandwidth topology; RF filtering. Bass-boost and treble-cut electronic controls $1,095

DUAL

CV5670 120-W/ch Integrated Amplifier
2 channels. 120 W x 2 into 8 ohms with 0.01% THD. Gold-plated inputs for phono and CD. Class A design; toroidal-core transformer. FR 6 Hz-95 kHz $525

EDGE

Sia-1 70-W/ch Integrated Amplifier
2 channels. 70 W x 2 into 8 ohms from 2 Hz-100 kHz with 0.002% THD. Toroidal power transformer; output-stage power transistors. Dynamic headroom 3 dB. 3-yr warranty. 51 lb $3,495

JEFF ROWLAND DESIGN GROUP

Concentra 100-W/ch Integrated Amplifier
2 channels. 100 W x 2 into 8 ohms from 20 Hz-20 kHz with 0.008% THD. 3 XLR inputs; 3 RCA inputs; 1 XLR line-level output; RCA line-level output; 1 tape input; 1 tape output. Tape monitor; volume-level display; remote control. Slew rate 30 V/µs; dynamic headroom 2 dB. 5-yr warranty. 17½ x 5¾ x 14⅜ in; 50 lb $5,600

JOLIDA

The following feature Class AB1 operation. Preamp and tape outputs are optional.

JD801A 70-W/ch Tube Integrated Amplifier
2 channels. 70 W x 2 into 8 ohms from 29 Hz-25 kHz with 1% THD. 3 inputs. S/N 70 dB. Black chassis with gold-plated or steel faceplate. 18¼ x 8½ x 13½ in; 47 lb $1,400

JD502B 60-W/ch Tube Integrated Amplifier
2 channels. 60 W x 2 into 8 ohms from 20 Hz-75 kHz with 1% THD. 4 inputs. Balance control. S/N 80 dB. Black chassis with gold faceplate. 17 x 7½ x 15 in; 39 lb $1,095
Tube cage for above $58

JD302B 50-W/ch Tube Integrated Amplifier
2 channels. 50 W x 2 into 8 ohms from 19 Hz-100 kHz with 1% THD. 4 inputs. Balance control. S/N 80 dB. Black chassis with gold faceplate. 17 x 7½ x 15 in; 39 lb $925
Tube cage for above $58

JD202A 40-W/ch Tube Integrated Amplifier
2 channels. 40 W x 2 into 8 ohms from 30 Hz-75 kHz with 1.5% THD. 4 inputs. S/N 80 dB. Black with silver faceplate. 12½ x 8¼ x 12 in; 28 lb $695

JD102A 20-W/ch Tube Integrated Amplifier
2 channels. 20 W x 2 into 8 ohms from 27 Hz-35 kHz

with 1.75% THD. 4 inputs. S/N 70 dB. Black chassis with gold faceplate. 12 x 5 x 8 in; 18 lb $550

KRELL

KAV-500i 250-W/ch Integrated Amplifier
2 channels. 250 W x 2 rms into 8 ohms from 20 Hz-20 kHz with 0.25% THD. XLR input; 3 RCA inputs; tape loop; RCA preamp outputs. S/N 103 dB. 5-yr, parts-and-labor warranty. 19 x 6⅜ x 15⅜ in; 43 lb $4,500

KAV-300i 150-W/ch Integrated Amplifier
2 channels. 150 W x 2 into 8 ohms or 300 x 2 into 4 ohms. 3 line-level inputs; tape loop; line-level output. Class AB. Remote control. 5-yr warranty. 19 x 3¾ x 15½ in; 25 lb $2,350

LEGACY AUDIO

Impulse 200-W/ch Integrated Amplifier
2 channels. 200 W x 2 into 8 ohms or 350 W x 2 into 4 ohms, both from 1 Hz-100 kHz. 10 inputs; 4 outputs. Class A/AB design. Remote volume control; LED display; bass-contour control. S/N 115 dB; ch sep 100 dB; slew rate 50 V/µs; damping factor 200; dynamic headroom 2.5 dB. 5-yr warranty. 17 x 5¾ x 15 in; 50 lb $3,150

LINN

Classik 75-W/ch Integrated Amplifier
2 channels. 75 W x 2 rms into 4 ohms. 4 inputs; record output; external-amp output. Built-in CD player. Bass and treble controls. 5-yr parts, 1-yr labor warranty $1,700

Majik-IP 33-W/ch Integrated Amplifier
2 channels. 33 W x 2 into 8 ohms or 66 x 2 into 4 ohms. 5 line-level inputs; switchable MM/MC phono input; 4 output pairs; headphone jack. Microprocessor-controlled switching. Add-on modules are available for FM tuning and multiroom control $1,345
Majik-IL. As above without phono input; 6 line-level inputs $1,195

LUXMAN

L-500 50-W/ch Integrated Amplifier
2 channels. 50 W x 2 into 8 ohms, 100 W x 2 into 4 ohms, or 200 W x 2 into 2 ohms. Gold-plated connectors. Gold-plated input-switching relays; direct-coupled pure-complementary amplification circuit; DC configuration via Duo Beta circuit; antiresonance construction; Star circuitry. Tone compensator; 32-position volume control $5,000

L-507 100-W/ch Tube Integrated Amplifier
2 channels. 100 W x 2 rms into 8 ohms from 20 Hz-20 kHz with 0.04% THD. 4 RCA inputs; 2 XLR inputs; 2 outputs; 2 unswitched AC outlets. Power-level meters; record-out selector; A/B speaker selector; tone control; balance control; line-straight switch; loudness control; phase switch; remote control. Champagne gold. 3-yr warranty. 18½ x 7 x 17⅞ in; 48 lb $3,600

L-507s 100-W/ch Integrated Amplifier
2 channels. 100 W x 2 into 8 ohms. CD input; MC and MM phono inputs; line-level input; tape input; XLR input; tape output; line-level output. Tone and loudness controls. Champagne gold. 3-yr warranty $3,600

SQ-38 30-W/ch Tube Integrated Amplifier
2 channels. 30 W x 2 rms into 6 ohms from 20 Hz-20 kHz. CD input; MM phono input; tape monitor. EL34 output tubes in push-pull configuration; tube-control circuit using 12AU7 tuned vacuum tubes. Champagne gold with gray cover. 3-yr warranty. 17 x 8¼ x 15¼ in; 55 lb $3,500

SQ-38s 30-W/ch Tube Integrated Amplifier
2 channels. 30 W x 2 into 6 ohms. FR 20 Hz-20 kHz ±0.5 dB; THD 0.5%. 3-yr warranty $3,500

L-505 70-W/ch Integrated Amplifier
2 channels. 70 W x 2 rms into 8 ohms from 20 Hz-20 kHz with 0.04% THD. 4 RCA inputs; 4 XLR inputs; 2 unswitched AC outlets; 2 outputs. Infrasonic filter. Power-level meters; record-out selector; A/B speaker selector; line-straight switch; loudness control; remote control. Champagne gold. 3-yr warranty. 18½ x 7 x 17⅞ in; 46 lb $2,600

L-505s 70-W/ch Integrated Amplifier
2 channels. 70 W x 2 into 8 ohms. CD input; MC and MM phono inputs; line-level input; tape input; XLR input; tape output; line-level output. Tone and loudness controls. Champagne gold. 3-yr warranty $2,600

A-383 100-W/ch Integrated Amplifier
2 channels. 100 W x 2 rms into 8 ohms from 20 Hz-20 kHz with 0.04% THD or 330 x 2 into 2 ohms. 3 video inputs; switchable MM/MC phono input; gold-plated CD and phono inputs; system bus connection; outputs for 2 speaker pairs. All-stage symmetrical push-pull circuit; video-input buffer amplifier; line-phase sensor; Star circuitry. Multiroom capability; line-straight switch; record-out selector; bass, treble, and balance controls; loudness switch; A/B speaker selector; remote control. FR 20 Hz-20 kHz ±0.5 dB phono, 10 Hz-70 kHz +0.5, –1.5 dB line; S/N 77 dBA MM, 56 dBA MC, 100 dBA line $1,295

A-384 80-W/ch Tube Integrated Amplifier
2 channels. 80 W x 2 rms into 8 ohms from 20 Hz-20 kHz with 0.05% THD or 230 x 2 into 4 ohms. Gold-plated input terminals for CD and phono. 12SU7 triode tube; metal chassis and front panel; line-phase sensor; Duo-Beta circuitry. Synchro CD-to-tape dubbing; system dimmer; system remote control. FR 20 Hz-20 kHz ±0.5 dB phono, 10 Hz-70 kHz +0.5, –1.5 dB line; S/N 82 dBA MM, 62 dBA MC, 100 dBA line. 17½ x 5⅛ x 15 in; 22 lb $995

A-373 80-W/ch Integrated Amplifier
2 channels. 80 W x 2 rms into 8 ohms from 20 Hz-20 kHz with 0.05% THD or 170 x 2 into 4 ohms. 3 video inputs; RCA input; system bus connection; gold-plated CD and phono inputs. Video-input buffer amplifier; motor-driven volume control; discrete power-output stages; line-phase sensor; Star circuitry. Record-out selector; A/B speaker selector; line-straight switch; bass, treble, and balance controls; loudness switch; remote control. FR 20 Hz-20 kHz ±0.5 dB phono, 10 Hz-70 kHz +0.5, –1.5 dB line; S/N 82 dBA MM, 62 dBA MC, 100 dBA line $795

A-353 60-W/ch Integrated Amplifier
2 channels. 60 W x 2 rms into 8 ohms from 20 Hz-20 kHz with 0.05% THD or 125 x 2 into 4 ohms. Switchable MM/MC phono input; system bus connection; outputs for 2 speaker pairs; gold-plated CD and phono inputs. Discrete power-output stages; motor-driven volume control; line-phase sensor; Star circuitry. Line-straight switch; record-out selector; A/B speaker selector; bass, treble, and balance controls; loudness switch; remote control. FR 20 Hz-20 kHz ±0.5 dB phono, 10 Hz-70 kHz +0.5, –1.5 dB line; S/N 82 dBA MM, 62 dBA MC, 100 dBA line $595

A-331 60-W/ch Integrated Amplifier
2 channels. 60 W x 2 rms into 8 ohms from 20 Hz-20 kHz with 0.05% THD or 115 W x 2 into 4 ohms. 3 video and 3 audio inputs; switchable MM/MC phono inputs. Discrete power-output stages; Star circuitry. A/B speaker selector. FR 20 Hz-20 kHz ±0.5 dB phono, 10 Hz-60 kHz +0.5, –1.5 dB line; S/N 82 dBA phono, 97 dBA line. 17½ x 5⅛ x 15 in; 20 lb $449

A-312 40-W/ch Integrated Amplifier
2 channels. 40 W x 2 rms into 8 ohms from 20 Hz-20 kHz with 0.05% THD or 85 W x 2 into 4 ohms. Switchable phono inputs. Discrete power-output stages; Star circuitry. A/B speaker selector. FR 20 Hz-20 kHz ±0.5 dB phono, 10 Hz-60 kHz +0.5, –1.5 dB line; S/N 82 dBA phono, 97 dBA line. 17½ x 5⅛ x 15 in; 18 lb $349

MADISON FIELDING

DSA 630 30-W/ch Integrated Multizone Amplifier
2 channels x 3 zones. 30 W x 6 into 8 ohms. One input; tape output. Class AB output operation; three 3-band EQs. Three motor-driven volume controls. FR 20 Hz-20 kHz; THD 0.04%; slew rate 30 V/µs; dynamic headroom 1.2 dB. 25 lb ...$949

DSA 450 50-W/ch Integrated Multizone Amplifier
2 channels x 2 zones. 50 W x 4 into 8 ohms. One inpput; tape output. Class AB output operation; two 3-band EQs. Two motor-driven volume controls. FR 20 Hz-20 kHz; THD 0.04%; slew rate 30 V/µs; dynamic headroom 1.2 dB. 20 lb $799

MARANTZ

PM-17 60-W/ch Integrated Amplifier
2 channels. 60 W x 2 into 8 ohms or 100 x 2 into 4 ohms, both from 20 Hz-20 kHz with 0.01% THD. 3 audio inputs; CD input; phono input; 2 tape loops; 4-way binding posts; 3 switched outlets. Temperature gauge. S/N 90 dB phono, 110 dB line; ch sep 74 dB; damping factor 100; dynamic headroom 1.5 dB. Black. 3-yr warranty. 18 x 4¼ x 17¼ in; 33 lb $1,200

Legacy Audio Impulse

Integrated Amplifiers

PM-68 95-W/ch Integrated Amplifier
2 channels. 95 W x 2 rms into 8 ohms with 0.07% THD or 130 x 2 rms into 4 ohms with 0.3% THD, all from 20 Hz-20 kHz. 7 audio inputs; external-processor loop; dual speaker terminals with banana jacks; headphone jack. All-discrete dual power-amp output stage construction with separate heat sinks; 8 high-current power transistors; motor-driven volume control. Bidirectional tape dubbing control; tone, balance, tape selector, and processor loop bypass switch; RC-5 system remote control. S/N 85 dBA phono, 88 dBA line; ch sep 80 dB at 1 kHz; damping factor 150. 3-yr parts-and-labor warranty. 17¼ x 6¼ x 14¾ in; 27 lb $500

PM-57 50-W/ch Integrated Amplifier
2 channels. 50 W x 2 rms into 8 ohms or 70 x 2 rms into 4 ohms, both from 20 Hz-20 kHz with 0.08% THD. 6 line-level inputs; 2 tape outputs; outputs for 2 speaker pairs. Discrete power-output stages; motor-driven volume control. System remote control jacks; independent control of tape output; loudness control; tone bypass switch; infrared remote control. S/N 80 dB phono, 85 dB line; ch sep 80 dB at 1,000 Hz. 3-yr warranty. 17¼ x 4 x 13½ in; 12 lb $300

MBL

Model 7005 50-W/ch Integrated Amplifier
2 channels. 50 W x 2 into 8 ohms or 80 x 2 into 4 ohms. 4 RCA inputs; 2-binding-post output pairs; XLR input; CD-direct input; MC/MM phono input; 2 tape outputs. Remote control. FR 0 Hz-90 kHz; THD 0.0035%; S/N 112 dB SPL/W/m; slew rate 15 V/µs; damping factor 300. 18 x 6 x 15 in; 40 lb $4,290

MCINTOSH

MA6800 150-W/ch Integrated Amplifier
2 channels. 150 W x 2 into 2, 4, or 8 ohms. 8 speaker-level inputs; 3 outputs; signal-processor loop; 6 switched and 1 unswitched AC outlets. 2 output-level meters; remote control. THD 0.005%; S/N 100 dB; dynamic headroom 1.8 dB. 3-yr warranty. 17½ x 7⅛ x 20 in; 70 lb $5,000

MISTRAL

Integrated 50-W/ch Integrated Amplifier
2 channels. 50 W x 2 rms into 8 ohms. 5 inputs. Star circuitry; separate power supplies for input/output stages. Brushed aluminum. 17 x 2½ x 13 in $1,095

MYRYAD

MI-120 60-W/ch Integrated Amplifier
2 channels. 60 W x 2 into 8 ohms from 20 Hz-20 kHz with 0.05% THD. CD input; video input; tuner input; aux input; 2 tape inputs; tape output; biwire outputs. Illuminated standby switch; illuminated input select-touch switches; headphone jacks; remote control. S/N 104 dB. 17 x 4 x 12 in; 19 lb $999

NAD

S300 100-W/ch Integrated Amplifier
2 channels. 100 W x 2 into 8 ohms, 200 x 2 into 4 ohms or 300 x 2 into 2 ohms, all from 20 Hz-20 kHz with 0.07% THD. 5 line-level inputs; XLR input. Dual-mono design; separate power supplies for each channel. Remote control; tape monitor. S/N 96 dB; damping factor 110. Aluminum chassis with sand-blasted finish. 17¾ x 6¼ x 15¾ in; 42 lb $2,199

Model 317 80-W/ch Integrated Amplifier
2 channels. 80 W x 2 cont from 20 Hz-20 kHz with 0.03% THD or 240 x 1, all into 8 ohms. 6 line-level inputs; 2 tape loops; pre-out/main-in loop; gold-plated input and output jacks; 5-way binding posts. All discrete circuitry. Full-function system remote control. S/N 119 dB. 17⅛ x 5 x 15 in; 27 lb $699

C340 50-W/ch Integrated Amplifier
2 channels. 50 W x 2 into 8 ohms or 4 ohms, both from 20 Hz-20 kHz with 0.03% THD. 7 line-level inputs; 2 tape monitors; pre-out/main-in loop. Independent sensing-circuit topology; non-invasive protection circuit; high-current design. Tone defeat; NAD Link; system remote control. S/N 104 dB; damping factor 60; dynamic headroom 3.5 dB. Gray. 17⅛ x 4⅜ x 11½ in; 17 lb $399

NAIM

NAIT-3R 30-W/ch Integrated Amplifier
2 channels. 30 W x 2 into 8 ohms. 5 line-level inputs. Electronic switching. Remote control. MM/MC phono input optional. 17¼ x 2¼ x 12 in $1,600
NAIT-3. As above, no remote control $1,200

NAKAMICHI

IA-1z 400-W Dolby Digital Integrated Amplifier
5 channels. Dolby Digital and Dolby Pro Logic modes. 80 W x 5 rms into 8 ohms from 20 Hz-20 kHz with 0.1% THD. 9 analog inputs; 3 coaxial/2 optical digital inputs. Harmonic Time Alignment amplifier topology. Programmable remote control; on-screen displays; multizone/multisource capabilities. S/N 95 dB; ch sep 70 dB at 1 kHz. Black brushed aluminum. 3-yr warranty. 17 x 6¾ x 15¾ in; 39 lb $2,900

IA-1zx 400-W Dolby Digital/DTS Integrated Amplifier
5 channels. Dolby Digital, DTS, and Dolby Pro Logic modes. 80 W x 5 rms into 8 ohms from 20 Hz-20 kHz with 0.1% THD. 9 analog inputs; 3 coaxial/2 fiber-optic digital inputs. Harmonic Time Alignment amp topology. On-screen display; multizone/multiroom capability; programmable remote control. S/N 95 dB; ch sep 70 dB. 3-yr warranty. 17 x 6¾ x 15¾ in; 39 lb $2,399

NVA

The following feature Class AB design and non-ferrous-material construction (except transformer). Finish is black anodized aluminum and plexiglass. Warranty is 3 years.

AP50 50-W/ch Integrated Amplifier
2 channels. 50 W x 2 rms into 8 ohms from 20 Hz-20 kHz. 6 line-level inputs; tape output. 17 x 3½ x 13 in; 16 lb $819
Phono stage $120

AP30 30-W/ch Integrated Amplifier
2 channels. 30 W x 2 rms into 8 ohms from 20 Hz-20 kHz. 6 line-level inputs; tape output. No adjustable circuit potentiometers. 17 x 3½ x 13 in; 14 lb $599
Phono stage $120

AP10 Personal 12-W/ch Integrated Amplifier
2 channels. 12 W x 2 rms into 8 ohms from 20 Hz-20 kHz. CD input; headphone output. 10 x 3 x 9 in; 5 lb $349

AP10H Headphone Integrated Amplifier
2 channels. CD input; headphone output. 10 x 3 x 9 in; 5 lb $279

ONIX

OA 31L Mk2 60-W/ch Integrated Amplifier
2 channels. 60 W x 2. 6 line-level inputs; front-panel headphone jack; two sets of speaker outputs. Separate record and input selectors. 17 x 3 x 13 in $1,095
OA 31C/M Mk2. As above with MC or MM phono stage $1,295
OA 31LT Mk2. As OA 31L Mk2 but with bass/treble tone controls $1,295
OA 31M Mk2. As OA 31L Mk2 but with MM phono stage $1,295
OA 30 Mk2. As OA 31L Mk2 but 40 W x 2; no record selector $795
OA 30C/M Mk2. As OA 30 MK2 with MC or MM phono stage $895

OA 21S 50-W/ch Integrated Amplifier
2 channels. 50 W x 2. CD, tape, aux, and tuner inputs. 9 x 3 x 14½ in $795
MM or MC phono board for above $100

Prices given are the suggested retail prices. Dealer prices may vary.

ONKYO

Integra A-9911 90-W/ch Integrated Amplifier
2 channels. 90 W x 2 rms into 8 ohms or 283 x 2 max into 2 ohms. Discrete outputs; direct signal paths; shielded-block construction with 2-panel chassis base; motor-driven volume control. Remote control. FR 20 Hz-20 kHz; THD 0.008%; S/N 117 dB; damping factor 130. 18 x 6¾ x 16⅝ in; 37 lb $1,120
Integra A-9711. As above, 80 W x 2 rms into 8 ohms or 235 x 2 max into 2 ohms; damping factor 120; S/N 114 dB $850

Integra A-SV810PRO 325-W A/V Integrated Amplifier
5 channels. Dolby Pro Logic and 8 ambience modes. 85 W x 3 (front, center) + 35 x 2 (rear) into 8 ohms or 180 x 2 max into 3 ohms. 6 video inputs including 5 S-video inputs; 10 audio inputs; 5 video outputs including 3 S-video outputs; 5 audio outputs; line-level subwoofer output. Dual power transformers; motor-driven volume control. 10 sound-field presets; adjustable digital delay; record-out selector; mute switch; on-screen displays; programmable cursor key; fluorescent display; Onkyo RI-system remote-control compatibility; remote control. FR 20 Hz-20 kHz ±0.06 dB; THD 0.06%; S/N 105; damping factor 90. 18 x 6¾ x 16⅝ in; 39 lb $1,100

A-9310 50-W/ch Integrated Amplifier
2 channels. 50 W x 2 rms into 8 ohms or 110 x 2 max into 2 ohms. 6 audio inputs; 5-way binding posts. Discrete output stage; source-direct mode; line-level subwoofer output. Onkyo RI-system compatibility; remote control. FR 20 Hz-20 kHz; THD 0.06%; S/N 102 dB; damping factor 150 into 8 ohms. 18 x 4¾ x 13 in $365

OPTIMUS BY RADIO SHACK

SA-155 1.8-W/ch Integrated Amplifier
2 channels. 1.8 W x 2. 4 audio inputs; tape output; headphone jack. Compact design; switchable magnetic/ceramic phono preamp. Rotary volume, tone, and balance controls; LED power indicator; mono/stereo switch. Black. 9½ x 2¾ x 6½ in $60

PARASOUND

P/HA-150 Headphone Integrated Amplifier
2 channels. 2 inputs; 2 phone outputs. Class A design. Special-design volume control; mute switch. 9¼ x 1¾ x 7 in $290

PERREAUX TECHNOLOGIES

Model 200i Professional 200-W/ch Integrated Amplifier
2 channels. 200 W x 2 into 8 ohms from 20 Hz-20 kHz with 0.02% THD. 6 line-level input; dual direct input; dual parallel power amp input/output; 2 tape outputs; dual preamp output; five-way output terminals. Class A/AB design; biamping, triamping, and signal-processor looping capability; 3 separate power supplies. Remote balance, volume, and mute control. Black. 38 lb $2,495

Model 200i Classic. As above with specially-polished aluminum, silver chrome-, black chrome-, or 24k gold-plated front panel $2,895

POWER MODULES

Virtuoso 30-W/ch Integrated Amplifier
2 channels. 30 W x 2 rms into 8 ohms or 60 x 2 rms into 4 ohms, both from 1 Hz-100 kHz. 3 RCA inputs; 2 XLR outputs. Class A operation. Remote control; 2 VU meters. Black. 5-yr warranty. 17 x 4½ x 19 in; 60 lb $3,995

REVOX

E-450/Exception 200-W/ch Integrated Amplifier
2 channels. 200 W x 2 rms into 4 ohms from 20 Hz-20 kHz with 1% THD. 8 line-level inputs; MM/MC phono input; XLR CD input; 3 preamp outputs. Dual-mono Class AB design. Multiroom capability. S/N 105 dB; ch sep 73 dB; slew rate 2 V/µs; damping factor 200; dynamic headroom 2 dB. Black,silver. 19 x 5 x 16 in; 39 lb $4,900

S25 Elegance 60-W/ch Integrated Amplifier
2 channels. 60 W x 2 into 4 ohms from 20 Hz-30 kHz with 0.015% THD. 6 line-level inputs; MM phono input; tape monitor output. High-current Class AB circuitry; microprocessor prepared for S20 AVP surround processor; headphone amp with balance controls. S28 remote control optional. S/N 90 dB; ch sep 90 dB at 1,000 Hz; slew rate 60 V/µs; dynamic headroom 1.8 dB. Black or silver brushed aluminum. 17 x 3 x 11 in; 15 lb $1,195

S20 AVP Elegance. 3 channels. Dolby Digital and Dolby Pro Logic processor/amp designed to integrate with S25 integrated amp for a total of 5 channels. 3 video and 3 audio outputs. High-current amp design; 3 amps on 1 chassis (50 W center, 35 W x 2 surround); upgradeable to DTS. Remote controlled generator setup for balancing surround channels. THD 0.01%; S/N 90 dB. 17 x 3 x 11 in; 19 lb $2,200

ROTEL

RA-985BX 100-W/ch Integrated Amplifier
2 channels. 100 W x 2 cont into 8 ohms. 6 RCA inputs; pre-out/main-in and processor loop; binding post output. Dual-zone capability; remote control. FR 4 Hz-100 kHz +1, –4 dB; THD 0.03%; S/N 97 dB; damping factor 400. 17⅜ x 4⅞ x 13¾ in $800

RA 971 60-W/ch Integrated Amplifier
2 channels. 60 W x 2 cont into 8 ohms. 6 inputs, including 2 tape loops; headphone jack. Listen/record selector; tone defeat. FR 10 Hz-100 kHz +1, –4 dB; THD 0.03%; S/N 95 dB; damping factor 150. 17⅜ x 3⅜ x 12 in $500

RA 931 30-W/ch Integrated Amplifier
2 channels. 30 W x 2 cont into 8 ohms. 5 inputs including phono and tape loop; headphone jack. Tone defeat. FR 10 Hz-40 kHz ±1 dB; THD 0.03%; S/N 100 dB line; damping factor 180. 17⅜ x 3⅜ x 12 in $300

RUSSOUND

IA-48 496-W A/V Integrated Amplifier
8 channels. 45 W x 8 into 8 ohms or 62 x 8 into 4 ohms. Line-level bus; stereo/mono input-channel; 12-V DC output; external connection. Toroidal high-current power supply. Multizone capable. Bass, treble, and volume controls for each of four stereo amps. FR 20 Hz-20 kHz; THD 0.06%. Black extrusion. 17 x 15¼ x 4⅛ in; 28 lb $1,195

AP-48 448-W Integrated Amplifier
8 channels. 56 W x 8 into 8 ohms or 68 x 2 into 4 ohms. Line-level bus; 12-V DC output. Toroidal high-current power supply. FR 20 Hz-20 kHz; THD 0.06%. 17 x 15¼ x 4⅛ in; 28 lb $900

SIGNATURE TECHNOLOGIES

SRi-8 65-W/ch Tube Integrated Amplifier
2 channels. 65 W x 2 rms into 8 ohms from 30 Hz-21 kHz with 0.03% THD. 6 line-level inputs; pre-out/main-in loop; tape output; gold-plated connectors. Class A design; discrete FET input drivers. Mute switch; mono/stereo switch; separate listening and recording switch; potentiometers with self extinguishing LED. S/N 100 dB; dynamic headroom 1.2 dB. 19 x 8 x 15 in $2,995

SONY

TAF808ES 100-W/ch Integrated Amplifier
2 channels. 100 W x 2 into 8 ohms or 130 x 2 into 4 ohms. 6 line-level inputs; phono input; line-level output; signal-processor loop; gold-plated connectors. Class A MOSFET voltage stage; parallel push-pull complementary output stage with 4 MOSFETS per channel; spontaneous twin-drive power supply; discrete output transistors; 20-mm-thick shaved-aluminum-block heat sinks; OFC circuit-board traces; top and bottom plates made of calcium carbonate reinforced with glass fiber; motor-driven input selector; moving-coil phono input; infrasonic filter. Recording-monitor, source-direct; mono/stereo, 20-dB mute, and A/B speaker switches; remote control with controls for Sony sources. FR 2 Hz-200 kHz –3 dB line; S/N 93 dB MM, 79 dB MC, 105 dB line; damping factor 100 into 8 ohms at 1 kHz. 5-yr-limited warranty. 17 x 6¾ x 17¼ in; 52 lb $1,700

TAF707ES 90-W/ch Integrated Amplifier
2 channels. 90 W x 2 into 8 ohms or 120 x 2 into 4 ohms. 6 line-level inputs; phono input; line-level output; signal-processor loop. Class A MOSFET voltage stage; parallel push-pull output stage with 4 MOSFETS per channel; spontaneous twin-drive power supply; discrete output transistors; calcium-carbonate chassis reinforced with glass fiber; motor-driven input selector; MC phono input; infrasonic filter; die-cast aluminum heat sinks; aluminum front panel. Recording-monitor, source-direct, mono/stereo, 20-dB mute, and A/B speaker switches; remote control with controls for Sony sources. FR 2 Hz-200 kHz –3 dB line; S/N 93 dB MM, 77 dB MC, 105 dB line; damping factor 100. 5-yr-limited warranty. 17 x 6½ x 17⅛ in; 47 lb $1,200

SUTHERLAND

CA-800 100-W/ch Integrated Amplifier
2 channels. 100 W x 2 rms into 8 ohms. 4 RCA inputs; XLR input. Mute switch. 19 x 7½ x 17 in; 66 lb $8,220
Phono input for the above $885
Universal remote control for above $100

TEAC

A-BX10B 100-W/ch Integrated Amplifier
2 channels. 100 W x 2 rms into 8 ohms with 0.04% THD or 160 x 2 into 4 ohms with 0.06% THD, both from 20 Hz-20 kHz. 4 line-level inputs; XLR input; binding-post outputs. Balanced circuit configuration to cancel out power-supply noise and hum fields; power supplies with shielded toroidal power transformers and parallel-connected output-stage power transistors. FR 20 Hz-40 kHz –1 dB line; S/N 106 dB. 17¾ x 4⅛ x 15¼ in $2,700

All the information in these listings is provided by the manufacturers. If you want to know more, see page 233 for a directory of mail addresses, phone numbers, and Web addresses.

TUBE TECHNOLOGY

Synergy PPS 150-W/ch Tube Integrated Amplifier
2 channels. 150 W x 2 rms into 8 ohms from 12 Hz-55 kHz with 1% THD. 5 RCA inputs; record output. Ultralinear tube amp with 6 EL-84 pentode outputs per channel. Remote on/off, volume, and standby control. 18½ x 6 x 18½ in; 105 lb $11,000

Unisis/Unisis Phono 35-W/ch Tube Integrated Amplifier
2 channels. 35 W x 2 into 8 ohms from 12 Hz-58 kHz with 1% THD. CD, tape, tuner, and 2 aux inputs; record output. Push-pull ultralinear tube amp with EL-84 pentode outputs. Black; available in silver. 14 x 6 x 11 in $3,600

Syrinx Stereo 45-W/ch Tube Integrated Amplifier
2 channels. 45 W x 2 or 90 x 1, both rms into 8 ohms from 16 Hz-55 kHz with 1% THD. CD, tape, tuner, and 2 aux inputs. Auto bias tube amp with EL-34 pentode tubes. Remote volume and on/off control. S/N 85 dB. Black; available in silver. 14 x 3½ x 10¾ in $2,250

WOODSIDE

ISA230 30-W/ch Tube Integrated Amplifier
2 channels. 30 W x 2 into 8 ohms. 4 line-level inputs; tape monitor; MM phono input. Four 5881, two ECC83, and two ECC81 vacuum tubes. S/N 85 dB line, 75 dB phono. 17 x 3½ x 14 in $2,195
As above without MM phono stage $1,895

WRIGHT

Model 16-I 8-W/ch Tube Integrated Amplifier
2 channels. 8 W x 2 into 8 ohms from 25 Hz-23 kHz. 2 line-level inputs; RCA output. Class A operation; features 6L6WGC/5881 output tube per channel, operated in partial triode mode; no circuit boards; gold-plated individually-mounted input jacks; choke-filtered power supply. Bass and treble controls. Replacement tube set optional. Black-anodized nonmagnetic chassis with dark-oak side panels. 12½ x 7 x 9½ in $750

YAMAHA

DSP-A1 620-W Dolby Digital/DTS Integrated Amplifier
7 channels. Dolby Digital, DTS, 24 Cinema, and 18 Music modes. 110 W x 3 (front, center) + 110 x 2 (rear surround) both with 0.015% THD + 35 x 2 (front surround) with 0.05% THD, all rms into 8 ohms, from 20 Hz-20 kHz. 6-channel input; 1 AC-3 RF, 3 coaxial, and 5 optical digital inputs; 5 audio inputs; 6 video inputs including S-video; subwoofer output. 128X oversampling 24-bit A/D converter; 8X oversampling 24-bit D/A converter. Signal-sensing auto selection for Dolby Digital, DTS, or PCM; EQ control; test-tone generator; remote control with 13 programmable 7-step macros. S/N 96 dB; ch sep 70 dB at 1 kHz; damping factor 200. Black. 17⅛ x 7½ x 18¾ in; 63 lb $2,599
DSP-A1GL. As above, gold with wood sides. 18¾ x 7½ x 18¾ in $2,799

AX-592 100-W/ch Integrated Amplifier
2 channels. 100 W x 2 rms into 8 ohms from 20 Hz-20 kHz with 0.015% THD. 6 audio inputs; MM/MC phono input; 2 tape outputs; pre-out/main-in loop; 2 switched AC outlets. Input/output direct symmetrical design; high-current low-impedance drive capability; discrete power amp. CD direct switch; record-out selector; pure direct switch; loudness control; Yamaha system remote control. S/N 92 dB phono, 110 dB line; damping factor 320 from 20 Hz-20 kHz; dynamic headroom 1.4 dB. Black. 17⅛ x 6 x 15⅜ in; 23 lb $499

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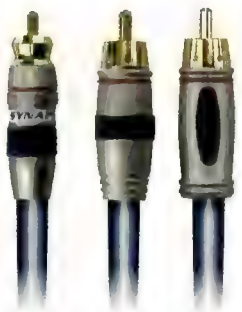

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Signal Processors

The tools for fine-tuning your system's sound

"Signal processors" is a catchall category made up of all of those black boxes that in some way manipulate the signal beyond the requirements of the basic audio chain. To be reproduced with ideal fidelity, a recording should be played back with the least possible amount of processing. The signal ought to be extracted from the CD, cassette, or DVD and then channeled through the preamp to the amplifier and on to the speakers with nary a tone-control knob turned or bass-boost button pushed. But few audio systems or listening rooms approach ideal transparency — nearly all of them "color" the signal in some way. To compensate, a variety of devices can help improve — sometimes dramatically — the faithfulness with which your system reproduces both movie soundtracks and music.

Surround-sound processors let you upgrade to surround sound without having to replace your existing preamp or receiver (assuming that it has the right connections for an outboard processor). Most processors decode both Dolby Pro Logic and Dolby Digital, and some can handle DTS, too. Many also throw in various DSP modes — Concert Hall, Church, or Jazz Club, for instance — like those usually found in A/V receivers. Surround processors also tend to have a greater variety of inputs and outputs than most receivers. A subcategory, the **virtual surround processor**, uses crosstalk cancellation and other techniques to give a surround-sound effect from just two speakers.

ADCOM GDD-1 DOLBY DIGITAL PROCESSOR

Graphic and parametric equalizers are more elaborate versions of bass and treble tone controls. A graphic equalizer divides the audio spectrum into three or more fixed frequency bands, each of which can be boosted or cut independently. The position of the slider controls for the bands provides a rough graphical representation of the selected response curve. A parametric equalizer usually has only three bands, but the user can select the frequency ranges they cover and the slopes of the filters. As with tone controls, using an equalizer is best avoided unless absolutely necessary. But when an equalizer is adjusted with the help of a pink-noise generator, it can be a relatively inexpensive way of compensating for acoustic problems that arise from equipment flaws or from a room's layout, construction, or furnishings.

Room-correction systems based on digital signal processing (DSP) are, in general, much more expensive than equalizers, but they tend to do a better job of solving room problems without adding errors of their own. Typically, a dealer or technician takes measurements of your listening space and then uses a software program to calculate the room's acoustics and create a customized equalization algorithm, which is then fed into a processor connected to your system.

Jitter-reduction devices are of interest mainly to those with super-sensitive, ultra-high-end systems that use a separate CD transport and digital-to-analog (D/A) converter. If a signal isn't converted using exactly the same timebase reference as when it was created, errors are introduced that can result in noise, although it will be inaudible in any normal audio application. Jitter-reduction devices are meant to compensate for this noise.

Phono processors use noise-reduction circuitry to make LP surface noise less audible. These are especially useful if you have old records, particularly 78s, with lots of crackles, hiss, and pops. Some processors also include filters for turntable rumble.

Active crossovers, inserted between the amplifier and the speakers, allow you to amplify each driver separately. Two-way speakers, for instance, would be biamplified, while three-ways would be triamplified. Most active crossovers also let you adjust the crossover frequencies between the drivers, although some manufacturers preset these points, based on your speaker model.

Other kinds of processors provide dynamic-range compression to maintain the same volume level for different sources, "bass restoration" to beef up the impact of low bass, ambience restoration to add theater-like reverberation to soundtracks, headphone surround sound, or independent subwoofer control. The higher resolution and greater flexibility of digital audio technology suggest that the future has an even greater variety of processing devices in store.

— Michael Gaughn

Signal Processors

ACCUPHASE

DG-28 64-Band Digital Graphic EQ
Center frequencies in ⅙-oct steps from 16 Hz-22.4 kHz. 1 fiber-optic and 1 coaxial digital input/output. Fully digital circuitry with input/output datapath at 24 and 48 bits for internal processing; 4 DSP chips; 2 filters with 64 cells per channel; proprietary algorithms for linking and controlling filter operation; jitter-free circuit. EQ, environmental, and analyzer modes; digital tone generator; remote control. Includes mic, mic cable, and mic holder. 18½ x 6 x 15¼ in; 29 lb $8,200
AO-U1. Analog RCA output $1,700
AO-B1. Analog XLR output $795
AO-B2. Balanced-output board $795
AO-U2. Line-output board $700
AI-B1. Analog XLR input $595
AOI-U1. Analog RCA input and output $595
DIO-PRO1. AES/EBU digital input/output . . . $595
AI-U1. Analog RCA input $505
DI-OC1. Coaxial digital input and output $420
DI-ST1. ST optical digital input $420
DI-BNC1. BNC coaxial digital input $350

F-25 Active Crossover
5-way. 21 user-selectable crossover points. Unitized amps allow configuration from 2 to 4 channels; GIC filter circuits. THD 0.003%; S/N 100 dBA. 19 x 7 x 15 in; 37 lb $6,800

ACURUS

ACT 3 Dolby Digital/DTS Processor
6 channels. Dolby Digital, DTS, Dolby Pro Logic, and MPEG modes. 4 A/V inputs; 4 audio inputs; 4 composite- and 2 S-video inputs; 8 coaxial and 3 optical inputs; 8 outputs. Class A output stage. Learning remote control. Upgradable hardware and software optional. 17 x 4½ x 20 in; 20 lb. . . . $1,799

ADCOM

GDD-1 Dolby Digital Processor
6 channels. Dolby Digital decoding. 1 RF, 1 optical, and 2 coaxial inputs. Connects via DB-25 port to GSA-700 or RCA connectors to GTP-600 or GTP-550 preamplifier/tuner; dialog-enhancing circuit; adjustable dynamic range settings of 25, 50, 75, or 100%; 24 bit digital processing; 20 bit D/A & filter. Selectable center and surround delay; remote control. THD 0.02%; S/N 90 dB. $800

GSA-700 Surround Processor/Amplifier
3 channels. Dolby Pro Logic. 2 audio and 2 video inputs. Amp rated at 80 W x 1 (center) + 55 x 2 (surround); variable subwoofer output via remote control; Dolby Digital-ready via DB-25 port. Video switching; on-screen display; bass EQ for soundtracks. THD 0.05%; S/N 104 dB $800

AMC

AV81HTC-DD Dolby Digital Processor
6 channels. Dolby Digital, Dolby Pro Logic, and Stereo modes. 2 digital inputs; 8 audio inputs; 4 composite-video inputs, 1 output; 6 audio outputs. Remote control. Includes mic. $1,399

PRO7 Surround Processor/Amplifier
6 channels. Dolby Pro Logic, Stereo, and Concert Hall Modes. 5 line-level inputs; 6 line-level outputs; 2 record outputs; 1 center-speaker output; 2 surround-speaker outputs. Low-Level Compensation maintains Dolby Pro Logic soundfield at reduced listening levels; theater compensation EQ filter; Dolby Pro Logic decoding via Analog Devices SSM 2126 integrated circuit; Dolby Time Link for channel delay; 40-W center amp; 40-W surround amp; high/low-pass filter switchable at 80 Hz. Remote controlled master, center, surround, and subwoofer output levels; front-panel level indicators for center, surround, and subwoofer channels; auto sequential test-tone generator; 4/8-ohm compensation switch for surround speakers remote power; 3-way center-channel mode selector; mute switch. 17 x 3½ x 13 in; 14 lb $550

ARCAM

Alpha 10AV Dolby Digital/DTS Processor
5 channels. Dolby Digital, DTS, and Dolby Pro Logic modes. 5 line-level inputs; 2 digital audio inputs; 2 optical inputs; 4 S-video, 1 component-, and 4 composite-video inputs; 5 line-level outputs; 2 tape loops. Preprogrammed/learning remote control. 17 x 15 x 4½ in; 22 lb $3,099

AUDIOCONTROL

Bijou Home Theater THX EQ
Provides EQ for L/R/C front, L/R surround, and 2 subwoofer channels. L/R/C front controls ⅓-oct apart from 80-800 Hz; Subwoofer controls ⅛-oct apart from 22½-80 Hz; surround controls from 100 Hz-6.3 kHz ±6-dB boost/cut. DB-25 multipin output connector for outboard Dolby Digital decoder. Security cover and rack mounts optional. THD 0.01%; S/N 109 dB. 5-yr warranty $995

Rialto Home Theater EQ/Crossover
11 EQ bands for L/R front and center channels with center frequencies ⅔-oct apart from 160 Hz-16 kHz; 5 EQ bands with center frequencies 150 Hz-12 kHz for L/R surround channels; 7 EQ bands with center frequencies ⅓-oct apart from 25 Hz-100 Hz for stereo subwoofer channel. Switchable +12-dB gain stage with level control on all outputs; programmable 24-dB/oct Linkwitz-Riley crossover; programmable 10-dB/oct infrasonic filter. Switchable widened-soundstage mode for front L/R speakers. THD 0.008%; S/N 113 dB. 5-yr warranty $599

C-131 30-Band Graphic EQ
Center frequencies ⅓-oct apart from 20 Hz-20 kHz; ±15-dB boost/cut. XLR and RCA inputs and outputs. 18-dB/oct infrasonic filter switchable at 15, 25, or 35 Hz. THD 0.002%; S/N 112 dB. 5-yr warranty $529

C-101 Series III 10-Band Graphic EQ/Analyzer
Center frequencies at 32, 60, 120, 250, and 500 Hz; 1, 2, 4, 8, and 16 kHz; ±15-dB boost/cut. Tape loop. Real-time spectrum-analyzer; pink-noise generator; 18-dB/oct infrasonic filter at 20 Hz; switchable fast or slow display speed; switchable 2- or 4-dB display steps; display level control; auto mic/line switching; tape EQ switch. Includes lab-grade mic. THD 0.005%; S/N 120 dB. 5-yr warranty $459

Richter Scale Series III 6-Band Subwoofer EQ/Crossover
Center frequencies at 22.5, 31.5, 45, 63, 90, and 125 Hz; ±12-dB boost/cut. 2-channel crossover output; mono and inverted-mono low-pass outputs; gold-plated connectors. 24-dB/oct Linkwitz-Riley active crossover. Warble-tone analyzer; low-frequency level control; source/tape monitoring; 18-dB/oct infrasonic filter; rumble-reduction control. Includes lab-grade mic. THD 0.005%; S/N 120 dB. 5-yr warranty $349

Phase Coupled Activator Series III Bass-Restoration Unit
Restores original bass impact lost during production of most program sources and movie soundtracks. Line- and speaker-level inputs. 24-dB/oct Linkwitz-Riley active crossover; bass time-alignment circuit. Programmable infrasonic filter. THD 0.005%; S/N 118 dB. 5-yr warranty $299

Ten Series III 10-Band Graphic EQ
Center frequencies at 32, 60, 120, 250, and 500 Hz; 1, 2, 4, 8, and 16 kHz; ±15-dB boost/cut. Tape loop. 18-dB/oct infrasonic filter; EQ tape switch. THD 0.005%; S/N 120 dB. 5-yr warranty $219

AEQ 26 6-Band EQ/Optimizer
Center frequencies at 45, 150, 300, and 700 Hz; 2.5, and 12 kHz; ±12-dB boost/cut. Designed for in-wall and bookshelf speakers. Programmable low-frequency filter. THD 0.005%; S/N 120 dB. 5-yr warranty $189

AUDIO RESEARCH

SDP1 Surround Sound Processor
3-channels. Can produce 5-channel matrix surround from conventional stereo signals. RCA and XLR inputs; RCA and XLR outputs (pass-through, left and right surround, center). Level control; adjustable delay. 3-yr warranty. 19 x 3½ x 11¾ in; 11 lb $2,995

AUDIOSOURCE

SS Six Surround Processor/Amplifier
6 channels. Dolby Pro Logic, Hall, Matrix, Dolby 3 stereo, and Monitor modes; amp rated at 24 x 1 (center) + 24 x 1 (surround) or 24 x 2 (surround). Subwoofer output with crossover; line-level outputs for each channel; line-level input; tape input; unprocessed line-level output; tape-record output. 30-ms digital delay; LED level meters for front, center, and surround channels; remote control. S/N 90 dB. 2-yr warranty. 16½ x 2⅛ x 9⅛ in; 9 lb $330

EQ Fourteen 10-Band Graphic EQ/Analyzer
Center frequencies at 30, 60, 120, 240, and 500 Hz; 1, 2, 4, 8, and 16 kHz; ±12 dB boost/cut. 3 inputs including 2 tape. Rack-mount design. Pink-noise generator; spectrum analyzer with average-output-level display; subharmonic filter; tape-dubbing capability; input-level controls; LED-illuminated sliders. Includes calibrated mic. THD 0.015%; S/N 98 dB. 16½ x 4 x 10 in; 10 lb $300
EQ Eleven. As above without pink-noise generator, mic, or rack-mount design. THD 0.03%; S/N 85 dB. 16½ x 2⅞ x 7 in $200

SS Five Surround Processor/Amplifier
6 channels. Dolby Pro Logic, Matrix, and Hall modes; amp rated at 24 x 1 (center) + 24 x 1 (surround) or 24 x 2 (surround). Selectable normal/phantom center-channel modes; selectable 30/50-ms delay time; tape-monitor switch; test-tone generator; auto turn-on/off; remote control with master, center, and surround level controls. $300
SS 5001. As above with 1 VS One center-channel speaker, 2 LS Ten surround speakers, interconnect cable, and 100-ft 18-gauge speaker cable. . . . $430

EQ Eight/II 10-Band Graphic EQ
Center frequencies at 30, 60, 120, 240, and 500 Hz; 1, 2, 4, 8, and 16 kHz; ±12 dB boost/cut. 3 inputs including tape; 2 outputs including tape. Spectrum analyzer; LED-illuminated sliders. THD 0.03%; S/N 80 dB. 16½ x 2⅜ x 7⅛ in; 5 lb . . . $160

BAG END

The following are speaker processors.

ELF-1 Dual Integrator
Provides active EQ, filtering, and system protection. Digital parameter selection in real time via 90 DIP switches. 11 lb $2,680

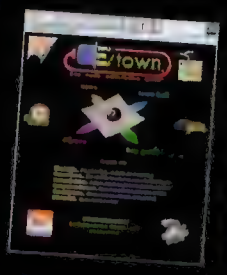
ELF-M2 Dual Integrator
2-channel high-pass output. Cut-off and high-pass frequencies internally adjusted via plug-in resistors; continuously variable protection threshold and gain; internal switch for stereo 2-way or mono 3-way operation. 9 lb $1,320
ELF-M. Simpler version of above $1,080

BANG & OLUFSEN

AV7000 Surround Processor/Amplifier
4 channels. Dolby Pro Logic; 45 W center-channel amp. Front, center, surround, and subwoofer outputs. Code-conversion processor for video sources or other brands; integrates with most Bang & Olufsen audio systems. Beolink remote control optional. THD 0.1%; S/N 86 dB. 16½ x 3 x 12¼ in $2,000

BRYSTON

Model 10B Linkwitz/Riley Active Crossover
2- or 3-way. Crossover point selectable at 40, 50,

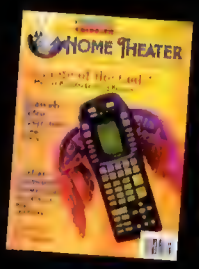


"Few products on the market can rightfully call themselves paragons – the highest possible achievement within current state-of-the-art technology. The DC-1 surround controller is such a product."

Ron Goldberg,
E-Town, June 1997

"...the DC-1's sound quality was little short of stunning. No component I've heard can provide the depth of DSP ambience processing (and extraction), user-customization, and flexibility of the DC-1."

Daniel Kumin, *Video*,
January 1998

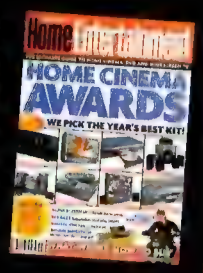


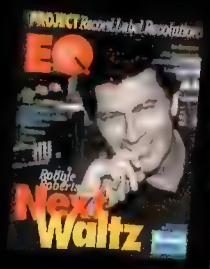
"The DC-1 did a better job of serving both music and soundtracks than any surround processor I've experienced to date."

J. Gordon Holt,
Stereophile Guide to Home Theater,
Winter 1996

"The surround steering has the sort of drive-by-wire precision that even Ferrari can't match. The DC-1 is one of the nearest things the home entertainment industry has to being a classic."

Home Entertainment, April 1997



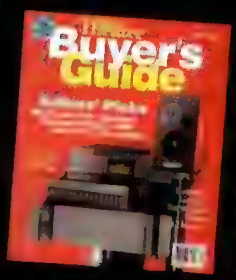


"The best digital surround processor to date at any price."

David Frangioni, *EQ*,
May 1998

"The Lexicon DC-1 clearly competes with the finest and most costly processors available, despite its comparatively modest price...It has the best ergonomics and real-world features of any A/V preamp/processor I have encountered."

Anthony H. Cordesman, *Audio*, June 1998



"Looking for the most advanced digital processing you can buy? This [DC-1] is it, no contest."

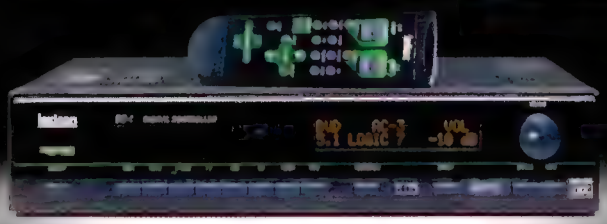
Home Theater Buyer's Guide, Winter 1996-97

"The DC-1 produces staggering audio. It's easy to set up and it delivers every conceivable (and inconceivable) surround mode – both for home cinema and music. If you are a connoisseur of home cinema, then look no further."

Bob Tomalski, *Home Cinema Choice*,
June 1997

"EIGHT THUMBS UP!"

The DC-1 Digital Controller



Lexicon

A Harman International Company

Lexicon, Inc. • 3 Oak Park, Bedford, MA 01730-1441 • 781/280-0300 • 781/280-0490 • Email: info@lexicon.com • Web: www.lexicon.com

60, 70, 80, 90, 100, 200, 250, 300, 400, or 500 Hz. 6-, 12-, or 18-dB/oct slopes; 24- or 36-dB/oct slopes with Linkwitz-Riley alignment in mono mode; Linkwitz/Riley filters; gold-plated switches; discrete amplification buffer and filter stages; independently selectable low-pass and high-pass points; switchable filter settings, roll-off frequencies, and slopes; level controls in 1-dB increments. S/N 90 dB. 20-yr parts-and-labor warranty..... $1,395
XLR input/output version $1,650
Bryston 10B. As above without Linkwitz/Riley circuit..... $1,295

CAMELOT TECHNOLOGY

The Dragon Pro2 Jitter Reducer
Designed for placement between CD Player or Transport and a D/A Converter. I²S, AES/EBU, coaxial, Toslink plastic fiber-optic, and ST glass fiber-optic inputs; I²S, AES/EBU, and coaxial outputs. Dual-PLL jitter reduction circuit with Crystal Semiconductor 8412 receiver IC and voltage-controlled crystal oscillator; selectable 18- or 20-bit resolution enhancement. Phase control; LED display for input, resolution, and sampling-frequency status. The Charm I pure DC battery power supply optional. 17 x 2 x 8 in; 7 lb $1,495

The Dragon Cinema Jitter Reducer
Toslink, coaxial, and I²S digital inputs; coaxial and I²S digital outputs. Dual-PLL jitter reduction circuit with Crystal Semiconductor 8414 receiver; compatible with 32-, 44-, 48-, and 96-kHz signals; outboard power supply. LED sampling-frequency indicator. 5-yr warranty. 8½ x 2 x 6 in; 2 lb $499

CELLO

Audio Palette 6-Band Graphic EQ
Center frequencies at 15, 120, and 500 Hz; 2, 5, and 25 kHz. 1 XLR input; 1 XLR and 1 RCA main outputs; 2 record outputs. Required external power supply (not included). Input-level, phase, blend, and output-level controls. THD 0.005%; S/N 80 dB. 19 x 7½ x 14⅛ in; 26 lb..... $20,000
Multiple-input version of above, with 1 XLR and 3 RCA inputs..... $22,000
Power supply..... $3,500
Cart with casters..... $725

CHIRO BY KINERGETICS

C-800 THX Digital Processor
6 channels. THX Home Cinema and Dolby Pro Logic modes. 8 audio inputs; 5 composite and 2 S-video inputs; 6 audio outputs; 2 composite- and 1 S-video outputs. Remote control. Includes mic. 3-yr parts-and-labor warranty. 17¼ x 5⅝ x 17¼ in; 30 lb..... $2,198
Second-zone remote control for above $50

C-5.1 Dolby Digital/DTS Processor
6 channels. Dolby Digital and DTS decoding. RF input for Dolby Digital; RCA and Toslink digital outputs. Auto switching between Dolby Digital and DTS. 3-yr parts-and-labor warranty. 17¼ x 2 x 16¼ in; 16 lb..... $1,798
As above without DTS processing..... $1,298

CHORD

ACO 2200 Active Crossover
2-way. Electronic crossover for active biamping. XLR and RCA inputs and outputs. Crossover, frequency, and slope custom-designed to user specifications. 5-yr warranty..... $3,500

CINEPRO

DTC-1 Dolby Digital/DTS Processor
6 channels. Dolby Digital, DTS, Dolby Pro Logic, and Hall Modes. 6 digital inputs (Toslink and coaxial); 2 digital outputs; 6 analog outputs. High-current Class A output stage; 20-bit D/A converter; HDCD decoding; motor-driven front-panel rotary controls with LED pointers; front-panel rotary-knob control for all digital functions. Auto digital switching; infrared remote control. THD 0.005%; S/N 118 dB. 3-yr warranty. 19 x 6 x 14 in; 24 lb..... $3,495

DB SYSTEMS

DB-3 Active Crossover
Fixed crossover points. Diode input protection. Available in 2- or 3-way form with 6- or 12-dB/oct Gaussian filters, 2- or 3-way form with 18-dB/oct Butterworth filters, or 2-way form with 24- or 36-dB/oct in-phase filters. Adjustable gain control for each channel. Powered by DB-2A power supply or connection to compatible DB systems component optional. THD 0.0008%. 5-yr transferable warranty. Price varies with options..... $380

DB-7 Signal Processor
Phase inverter, bandpass filter, and bridging adapter. Buffered inputs and outputs; outputs for bridging 2 stereo amps into 2 mono amps; gold-plated connectors. 18-dB/oct Butterworth infrasonic filter; 18-dB/oct Bessel ultrasonic filter. Phase switching for either or both channels. Powered by DB-2A power supply or connection to compatible DB systems component optional. THD 0.003%. 5-yr transferable warranty. 6¼ x 4½ x 2¼ in; 1 lb..... $235

DENON

AVD2000 Dolby Digital Processor
6 channels. Dolby Digital, Dolby Pro Logic, 5 Channel Stereo, Matrix, Mono Movie, Stereo, Rock Arena, Jazz Club, and Video Game modes. Analog input for outboard 5.1-channel surround decoder; 2 optical, 2 coaxial, and 1 AC-3 RF digital inputs; analog input; 1 optical digital output; L/R front, center, L/R surround, and subwoofer analog outputs. Digital DDSC (Dynamic Discrete Surround Circuit); cinema EQ; 20-bit D/A converter for front L/R channels; 18-bit for center/surround channels. Master volume control; remote control. THD 0.005%; S/N 110 dB. 17⅛ x 3 x 9½ in $599

ENERGY

EAC Subwoofer Control Unit
Controls two subwoofers. Line- and speaker-level inputs and outputs; 5-way gold-plated binding posts. Level control; independent variable high- and low-pass crossovers from 50-150 Hz; variable phase control; A/V EQ $250

ESOTERIC SOUND

Surface Noise Reducer
Reduces transient noise from phonograph records. 2 speaker-level inputs; 2 speaker-level outputs. Distortion-limiting circuit that prevents noise reduction from acting on music; rack-mount-width chassis. Noise and distortion controls; LED display. THD 0.02%; S/N 95 dB. 19 x 1¾ x 7 in; 4 lb..... $499

Re-Equalizer Phono Processor
6 selectable turnover points and 6 selectable rolloffs. Bypass switch. Flat, 300-Hz, 400-Hz, RIAA, LP, and 700-Hz turnovers. Flat, –5 dB, –10 dB, –12 dB, RIAA, and NAB rolloffs. THD 0.02%..... $335

HARRISON LABORATORY

SEMOD 30-Band Graphic EQ/Crossover
Center frequencies ⅓-oct apart. Crossover point selectable from several values for 2, 3, or 4 bands. Line-level input pair; line-level output pairs for 4 bands. 40-dB/oct crossover slopes; reverse-power protection. Full-range-output mode; pink-noise generator and level control; variable input sense; peak-level indicator for each band; 30-band noise gate. S/N 90 dB full-range mode. 12 x 4 x 1 in..... $459
SEMOD Less Display. As above without peak-level indicators $351

PFMOD 4CH Active Crossover
2-way. Front and surround high-pass crossover points selectable at 100 or 200 Hz; low-pass crossover point selectable from 16 values between 50 and 200 Hz. L/R front and L/R rear line-level inputs and outputs; L/R line-level subwoofer outputs. Requires no input power; 18-dB/oct filters $90

PFMOD Active Filters
The following modules require no input power. Each features an internal 20-year battery charged by line-level input, 2 gold-plated RCA full-range inputs, 4 gold-plated RCA outputs, crossover-point selection via jumper settings, and 15-dB-per-oct slopes.

Model 2W1 Active Crossover
2-way crossover for biamplifying. 2 high-pass and 2 low-pass outputs. Crossover point 50, 70, 100, or 150 Hz. 2 x 2 x 1½ in $60
HP1 Active Crossover. Designed for midrange/tweeter amplifiers. Two 50-, 70-, 100-, or 150-Hz high-pass outputs; 2 full-range outputs. 2 x 2 x 1½ in $50
HP2 Active Crossover. Designed for tweeter amplifiers. Two 3.5-, 4-, 6-, or 8-kHz high-pass outputs; 2 full-range outputs. 2 x 2 x 1½ in $50
LP1 Active Crossover. Designed for subwoofer amplifiers. Two 50-, 70-, 100-, or 150-Hz low-pass outputs; 2 full-range outputs. 2 x 2 x 1½ in ... $50

F-MOD Active Crossover
1-way. Low-pass crossover points selectable at 50, 70, 100, 150, 200, 500 Hz; 1, 2.5, 3.5, or 6.5 kHz; high-pass crossover at 20, 30, 50, 70, 100, 150, 200, 300, 500 Hz; 1, 2.5, 3.5, or 6.5 kHz. 1 RCA input; 1 RCA output. 12-dB slope. THD 0.05%; S/N 150 dB. 2¾ x 1 x 1 in; 1 lb..... $33

F-MOD Cable Active Crossover
1-way. Bidirectional high- or low-pass crossover points selectable at 50/10, 70/100, 100/200, 200/500 Hz, 500 Hz/1 kHz, 1/2.5, or 3.5/6.5 kHz; high-pass crossover points at 20/50 Hz. 2 inputs and 2 outputs. 12-dB slope. THD 0.005%; S/N 150 dB. 13½ x 1 x ½ in; 1 lb..... $27

INTERACTIVE LABS

Eldorado Dolby Digital Processor
6 channels. Dolby Digital and Pro Logic modes. 4 audio inputs; 12 A/V inputs; 6 audio outputs; 3 video outputs. Remote control. THD 0.01%; S/N 110 dB. 5-yr warranty. 17 x 7 x 15½ in $2,999
RMK 325. Rack-mount kit for above $30

Five-Q 5-Band Graphic EQ
Center frequencies at 60, 200, and 800 Hz; 3 and 10 kHz; ±15-dB boost/cut. 5 gold-plated RCA inputs; 5 gold-plated RCA outputs. Bypass switch; remote control. THD 0.01%; S/N 100 dB. 5-yr warranty. 17 x 3¼ x 15½ in..... $1,199
RMK 325. Rack-mount kit for above $30

Little-Q 5-Band Graphic EQ
Center frequencies at 60, 200, and 800 Hz; 3 and 10 kHz; ±15-dB boost/cut. 3 gold-plated RCA inputs; 3 gold-plated RCA outputs. Bypass switch; remote control. THD 0.01%; S/N 100 dB. 5-yr warranty. 17 x 3¼ x 15½ in..... $999
RMK 325. Rack-mount kit for above $30

JANIS

Interphase 3AT Active Crossover
2-way. Crossover point fixed at 100 Hz. Designed for subwoofers. L/R inputs. 1 variable low-pass and 2 high-pass 18-dB/oct Butterworth filters;

All prices given here are the suggested retail prices. Dealer prices may vary.

built-in 70-W bass amp. Crossover-bypass switch; level and phase controls. THD 0.01%; S/N 97 dB. 14 x 3½ x 14 in; 20 lb $750

JBL

SDP-2D THX Dolby Digital/DTS Processor
7 channels. Dolby Digital, Dolby Pro Logic, 15 user-programmable Music and Cinema surround modes including 7-axis decoding. 8 analog audio inputs; 2 coaxial and 2 optical digital audio inputs; 2 composite- and 3 S-video inputs; 7 main outputs. THX certified; built-in RF demodulator. Bass, treble, and loudness controls; on-screen and front-panel displays; remote control. Includes rack-mounting kit. THD 0.01% $6,000
STC-1 Touch Screen Controller. Touch-screen infrared remote control for above. Universal learning remote with 500 commands; 23 user-defined pages; 100 user-defined macros of up to 24 steps each; Preprogrammed to operate all JBL Synthesis THX powered home-theater systems. Archiving and design software optional $2,500

JRM ENGINEERING

Model 3PBP/X8 Active Crossover
2-, 3-, or 4-way stereo; high- and low-pass crossover points set via plug-in modules. Mono/stereo subwoofer outputs. 18-dB/oct slopes; infrasonic and ultrasonic filters; gold-plated inputs and outputs. THD 0.001%; S/N 94 dB $1,755
Model 3PBP/X4. As above, 2-way only ... $1,215

Remote 10-Band Graphic EQ
Center frequencies continuously variable between 4 Hz-50 kHz. Designed for use with JRM preamp, DA-20 D/A converter, or Model 3PBP crossover. 2% polypropylene capacitors; gold-plated inputs and outputs. Loudness range; separate L/R level controls. THD 0.001%; S/N 98 dB $1,575

KAB ELECTRO ACOUSTICS

Souvenir VSP INL Phono Processor
EQ and noise limiter for vintage 78s and mono LPs. Scratch-noise limiter; 2-speed dynamic noise limiter; transient impulse-noise limiter for ticks, clicks, and pops; rumble filter. 8 EQ settings; L/R balance and treble controls; mono with stereo bypass mode. THD 0.07%; S/N 79 dB $429
Souvenir VSP. As above without transient impulse-noise limiter $329

KENWOOD

Model 1070KE 14-Band Graphic EQ
Mic input with mixing control. 27-band spectrum analyzer display; graphic/parametric function; ±12 dB adjustable range; 6-preset music characteristics with 5 presets for each one; 3-preset recording EQ curves; on/off switch. THD 0.006%; S/N 100 dB. 17⅜ x 5⅞ x 14⅞ in; 11 lb $300

KE-2060 7-Band Graphic EQ
Center frequencies at 60, 150, and 400 Hz; 1, 2.4, 6, and 15 kHz; ±10-dB boost/cut. Tape loop; unswitched AC outlet. 5 factory and 5 user presets; 13-band spectrum display; fluorescent display; system remote control compatibility $140

LEGACY AUDIO

Steradian Signal Processor
Algorithm-based room-environment processor. XLR inputs and outputs. Frequency shaping, phase manipulation, and other correction circuitry. Adjustable low-frequency-hinge control (125 Hz and below). THD 0.001%; S/N 100 dB $1,295

LEXICON

LDD-1 Dolby Digital RF Demodulator
Auto switching between AC-3 RF and digital audio inputs; auto turn-on/off. 19-in rack-mount kit optional. 17 x 1¾ x 4 in; 5 lb $699

MARANTZ

DP-870 Dolby Digital Processor
6 channels. Dolby Digital decoding. RF, coaxial, and optical digital inputs. DSP decoder; Bitstream D/A conversion. Channel level and balance controls; speaker configuration switches; multichannel input. 3-yr warranty $600

MARCHAND

XM26-AA Tube Active Crossover
2-way. Crossover points selectable via plug-in modules from 20 Hz-5 kHz. 24-dB/oct filters; regulated power supply; four 12AX7A tubes/ch. Gold-plated inputs and outputs; high- and low-pass outputs with L/R level controls; sum switch for common subwoofer operation. 17 x 3 x 9 in $1,495

XM6-A Active Crossover
2-way. Crossover selectable from 20 Hz-5 kHz. 24-dB/oct filters; high- and low-pass outputs with L/R level controls; LED crossover-point display; phase switch for low-pass output. 17 x 3 x 9 in $695

XM16L-AA Active Crossover
2-way. Crossover selectable via plug-in modules from 20 Hz-5 kHz. Gold-plated inputs and outputs. 48-dB/oct filters; high- and low-pass outputs with L/R level controls; sum switch for common subwoofer operation $549
XM16L-3AA. 3-way version of XM16L-AA ... $699

XM9L-AA Active Crossover
2-way. Crossover selectable via plug-in modules from 20 Hz-5 kHz. Gold-plated inputs and outputs. 24-dB/oct filters; high- and low-pass outputs with L/R level controls; sum switch for common subwoofer operation $499
XM9L-3AA. 3-way version of XM9L-AA $599

McINTOSH

MAC-3 Dolby Digital Processor
6 channels. Dolby Digital decoding. 4 coaxial and 4 optical digital inputs; 1 RF AC-3 input. Remote control. THD 0.005%. 3-yr warranty. 17½ x 3⅝ x 17½ in; 32 lb $2,500

MIRAGE

LFX-3 Active Crossover
2-way, 3 channels. Crossover point selectable at 50, 63, 80, or 100 Hz. Designed to control up to 3 subwoofers with mixing matrix. Phase switch; crossover-bypass switch; variable center-channel control. 17 x 9 x 2½ in; 7 lb $800
LFX-1. 2-ch control unit for any subwoofer ... $250

MSB TECHNOLOGY

DDP-2X Dolby Digital/DTS Processor
6 channels. Dolby Digital and DTS decoding. Toslink and coaxial inputs; 6 analog inputs; 6 analog outputs; 3 digital outputs. 2-, 4-, 5-, or 6-channel configurations; built-in 2-channel D/A converter. Master volume control with 6-level trim adjusters; remote control. THD 0.01%; S/N 98 dB. 17 x 4 x 10 in; 33 lb $2,195

MTX

HTX-V2 Active Crossover
2-way. High- and low-pass crossover points variable from 32 Hz-400 Hz. Designed for custom home-theater/music applications. Gold-plated RCA connectors. 2 adjustable output gain controls. THD 0.05%; S/N 96 dB $160

NAIM

S-NAX03-6 Active Crossover
3-way. 18-dB/oct slopes. Requires separate Naim power supply. 2-way optional $1,600

NA IXO Active Crossover
2-way. 18-dB/oct slopes $1,050

NAKAMICHI

DE-1 Dolby Digital RF Demodulator
AC-3 RF input; coaxial Dolby Digital output. 5⅜ x 2 x 7⅛ in; 2 lb $450

NUREALITY

Vivid 3D Theater Signal Processor
Uses patented Sound Retrieval System (SRS) circuit to deliver 3-D surround sound from 2 speakers. Space and center ambience-level controls; bypass mode; volume control; LED display; remote control. S/N 90 dB. 16½ x 2¾ x 9¼ in; 9 lb ... $250

ONKYO

ED-301 Dolby Digital Processor
6 channels. Dolby Digital, Dolby Pro Logic, and Midnight Theater modes. 6-channel input; optical and coaxial digital inputs; 2 A/V inputs; 6-channel output; DB-25 multipin output connector. 24-bit DSP chip; 20-bit D/A converter; Lucasfilm ReEQ circuitry. Master volume control; LFE level control; 6-channel test-tone generator; 3-level display dimmer. THD 0.08%; S/N 96 dB. 17⅛ x 3½ x 12 in; 9 lb $400

Integra EQ-35 12-Band Graphic EQ
Center frequencies at 16, 32, 64, 125, 250, and 500 Hz; 1, 2, 4, 8, 16, and 32 kHz; switchable 6- or 12-dB boost/cut. 10-tone signal generator with step and sweep modes; signal-flow display; LED level indicators. THD 0.01%. 17⅛ x 3½ x 14⅜ in; 10 lb $385

EQ-201 7-Band Graphic EQ
Center frequencies at 64, 160, and 400 Hz; 1, 2.5, 6.3, and 16 kHz; 12-dB boost/cut. Tape loop. Spectrum analyzer; EQ defeat; LED level indicators. THD 0.01%. 18 x 3⅝ x 12 in; 8 lb $270
EQ-101. As above, no spectrum analyzer ... $180

OPTIMUS BY RADIO SHACK

Model 31-2030 10-Band Graphic EQ/Analyzer
Center frequencies at 31, 62, 126, 250, and 500 Hz; 1, 2, 4, 8, and 16 kHz; ±12-dB boost/cut. Image-enhancer circuit to widen soundstage. Tape dub/monitor controls; EQ-bypass button; fluorescent spectrum analyzer. THD 0.015%; S/N 95 dB $130

PARASOUND

P/DD-1500 Dolby Digital Processor
6 channels. Dolby Digital decoding. 1 Toslink and 2 coaxial inputs; RF input; DB-25 and line-level outputs. Zoran 38500 IC with 20-bit Burr-Brown PCM-63-J D/A converter; Lucasfilm ReEQ circuitry; dialog normalization. Dynamic range control; bass-contour control; adjustable center/surround-channel signal delay; remote control. THD 0.0015%; S/N 108 dB. 19 x 3½ x 13 in; 16 lb $995

R/EQ-150 5-Band Graphic EQ
Center frequencies at 40, 80, and 120 Hz; 2.5 and 6 kHz; ±8 dB boost/cut. Bypass switch. THD 0.05%; S/N 88 dB $145

PIONEER

GR-777 10-Band Graphic EQ
Center frequencies at 32, 64, 125, 250, and 500 Hz; 1, 2, 4, 8, and 16 kHz; ±10 dB boost/cut. Heavy, Clear, Soft, Visual, and Vocal preset curves; 5 user presets; 10-band spectrum display; SR-system remote control $410

GR-555 7-Band Graphic EQ
Center frequencies at 60, 150, 400 Hz, 1, 2.4, 6, and 15 kHz; ±10 dB boost/cut. Tape monitor; 7-band spectrum display; defeat switch $260

GR-470 7-Band Graphic EQ
Center frequencies at 60, 150, 400 Hz, 1, 2.4, 6, and 15 kHz; ±10 dB boost/cut. LED slider controls; defeat switch $135

Signal Processors

PROCEED

PDSD Dolby/THX/DTS Digital Processor
6 channels. Dolby Digital, DTS, THX Home-Cinema and MPEG-2 modes. Digital inputs. Provides digital surround decoding for PAV A/V preamplifier; software and hardware upgradable; 24-bit/96 kHz processing $4,695

RANE

RPE 228 28-Band Graphic EQ
Center frequencies in ⅓-oct steps from 31.5 Hz-16 kHz. Euroblock connectors. Interpolating constant Q filters; low-pass filter adjustable from 10 Hz-200 Hz in 10-Hz steps or off; high-pass filter adjustable from 1 kHz-20 kHz in 1 kHz steps or off; digital-controlled analog filters. 8 EQ memory-access via switch, AMX, or Creston controls; no front-panel controls; 8 memory-access via contact closure; separate input and output level controls; RaneWare Windows Software; EQ is programmed via RS-232 serial ports. THD 0.02%; S/N 94 dB. 3-yr warranty. 19 x 1¾ x 8½ in; 6 lb $1,294

THX 44 15-Band Graphic/Parametric EQ
Center frequencies at 80, 100, 125, 160, 200, 250, 315, 400, 500, 630, and 800 Hz with ±6 dB boost/cut; 2 parametric EQ bands for each channel, each with Q variable from 0.7-3.5, and ±4 dB boost/cut, subwoofer Q variable from 0.5-2.5, ±6 dB boost/cut. Designed for left, center, right, and subwoofer channels in home-theater system. Line-level left, right, center-channel, and subwoofer outputs; THX DB-25 input and output; RCA connectors. External power supply. Power on/off mute; fail-safe bypass; security cover. Includes 19-in rack-mount ears. THD 0.001%; S/N 120 dB. 3-yr warranty. 19 x 3½ x 8½ in; 8 lb $1,099

ME 60 30-Band Graphic EQ
Center frequencies at 25, 31.5, 40, 50, 63, 80, 100, 125, 160, 200, 250, 315, 400, 500, 630, and 800 Hz; 1, 1.25, 1.6, 2, 2.5, 3.15, 4, 5, 6.3, 8, 10, 12.5, 16, and 20 kHz; ±12 dB boost/cut. RCA, XLR, and phone-jack inputs and outputs. 12-dB/oct Butterworth low-cut filters for each channel variable from 10-250 HZ; 12-dB/oct Butterworth high-cut filters for each channel variable from 3-40 kHz; constant-Q bandwidths; 2 adjustable band-limiting filters; RFI filters. Overall gain-control; passive bypass switches with LED indicators for each channel; overload indicators; 2-rack-space chassis. THD 0.008%; S/N 110 dB. 3-yr warranty. 19 x 3½ x 8½ in; 9 lb $699

AC 23B Active Crossover
2- or 3-way stereo or 4- or 5-way mono. Crossover frequencies selectable from 70 Hz-1 kHz for 2 crossover points and from 190 Hz-7 kHz for 2 other points. XLR inputs and outputs. 24-dB/oct Linkwitz-Riley filters; separate power supply; infrasonic, ultrasonic, and RFI filters. Adjustable time delays for low- and mid-frequency outputs; individual band muting; input and output level controls. THD 0.02%; S/N 92 dB. 19 x 1¾ x 5⅜ in; 5 lb. . . . $549
AC 23. As above, balanced phone-jack inputs and RCA outputs $529

PE 17 5-Band Parametric EQ
Center frequencies each individually variable from 10-200 Hz or 1-20 kHz with Q's individually variable from 0.03 to 2; +12, –15 dB boost/cut. XLR and phone-jack inputs and outputs. Sweepable 12-dB/oct Butterworth low- and high-cut filters with low-cut filter variable from 10-250 Hz and high-cut filter variable from 3-40 kHz; auto bypass upon power failure. Input and output gain controls; bypass switches and LED indicators for each band. THD 0.005%; S/N 98 dB. 3-yr warranty. 5 lb $549

SSE 22 11-Band Graphic/Parametric EQ
11 center frequencies in ⅓-oct steps from 80-800 Hz; 2 parametric center frequencies selectable from 1 kHz-10 kHz; both ±6 dB boost/cut. Designed for use with surround channels in home-theater applications. RCA inputs and outputs. Outboard power supply. Graphic and Parametric controls. Includes security cover and rack-mount ears. THD 0.001%; S/N 120 dB. 3-yr warranty. 19 x 1¾ x 8½ in; 5 lb $499

AC 22B Active Crossover
2-way stereo with subwoofer or 3-way mono. Crossover points selectable from several values from 70 Hz-3.6 kHz. XLR inputs and outputs. 24-dB/oct Linkwitz-Riley crossovers; infrasonic, ultrasonic, and RFI filters; external power supply. Adjustable time delay for low and mid outputs; individual band muting; input and output level controls. THD 0.02%; S/N 92 dB. 3-yr warranty. 19 x 1¾ x 5⅜ in $439
AC 22. As above, balanced phone-jack inputs and RCA outputs $429

ME 15B 15-Band Graphic EQ
Center frequencies from 25-16 kHz with ⅔-oct ISO spacing, selectable ±6 or ±12-dB boost cut. XLR and RCA (phono-jack) inputs and outputs. Constant-Q bandwidths; infrasonic, ultrasonic and RFI filters. Overall gain-controls, bypass switches, and overload indicators for each channel. THD 0.009%; S/N 110 dB. 3-yr warranty. 19 x 1¾ x 5¼ in; 5 lb $429
ME 30B. As above, 30-band mono design with center frequencies from 25 Hz-20 kHz with ⅓-oct ISO spacing $419

ROTEL

RSP 985 THX Digital Processor
5 channels. Dolby Digital, Dolby Pro Logic, Stereo, Hall, Concert, and Stadium modes. 2 Toslink and 2 coaxial inputs; 4 S-video inputs; DB-25 input; 6 RCA outputs. Multiroom operation. On-screen display; remote control. THD 0.03%; S/N 100 dB. 5-yr warranty. 17⅜ x 5 x 12½ in; 21 lb $1,900

RSP 975 THX Digital Processor
5 channels. Dolby Digital, Dolby Pro Logic, Stereo, Hall, Concert, and Stadium modes. 1 Toslink and 3 coaxial inputs; DB-25 input; 4 video inputs; 6 RCA outputs. On-screen display; remote control. THD 0.03%; S/N 100 dB. 5-yr warranty. 17⅜ x 5 x 12½ in; 18 lb. $1,000

SHERWOOD

EQ-3050C 7-Band Graphic EQ
12 factory EQ presets; tape monitor; peak hold; switchable display level; spectrum display; display dimmer; fluorescent display. THD 0.005%; S/N 108 dB $229

SIGNATURE TECHNOLOGIES

LPf-2 Active Crossover
2-way. 6-dB/oct passive high-pass filter at 70 Hz; 18-dB/oct low-pass filter at 68 hz; infrasonic filter. Low-frequency level control to +10 dB. THD 0.01%. 6 x 2⅝ x 9¼ in; 2 lb $395

SIGTECH

T 1121 D-F Digital Signal Processor
Corrects system's frequency response, phase, and imaging by compensating in time domain for reflections derived from room acoustics. Digital coaxial, AES/EBU, and AT&T ST inputs and outputs. 250-mips architecture; individual correction for each significant reflection. 3 user presets. Includes room measurement and calibration by dealer. 20-bit analog input and output with coaxial and XLR formats optional. S/N 104 dB. $7,790
T921D. As above with only one user preset and with digital coaxial, AES/EBU, EIAJ optical inputs and outputs $5,590

SIMA PRODUCTS

SVS-1 Volume Stabilizer
Maintains a constant volume level by acting as a dynamic-range compressor for home-theaters, stereo systems, satellite TVs, CD to tape copies, and background music. RCA inputs and outputs. 10:1 or 2:1 compression setting; bypass switch. Includes connecting cable and power transformer. THD 0.1%. 5½ x 5 x 1½ in $60
SVS-4. As above with 4 input/2 output A/V switcher; audio, composite-video, and S-video inputs and outputs; remote control. 13 x 8 x 2¼ in $150

SNELL

RCS 1000 Digital Signal Processor
Correction system to compensate for room acoustics. Six full-range channels, analog inputs and outputs via RCA and XLR connectors. Six Burr-Brown 20-bit A/D converters; six Motorola 56002 digital signal processors; six Burr-Brown 20-bit D/A converters; built-in FFT measurement and analysis system. Calibrated mic; full-function infrared remote control; front-panel active display with remote controlled functions. THD 0.005%; S/N 100 dB $15,000

SONIC FRONTIERS

SSP-1 Surround Processor
6 channels. Dolby Digital, DTS, and Dolby Pro Logic modes. 9 digital inputs; 6 video inputs; XLR and RCA inputs and outputs. 20-bit D/A converter. On-screen display; remote control; auto-speaker calibration; auto-mode select. THD 0.002%; S/N 110 dB. 5-yr full warranty. 19 x 5¼ x 13 in; 30 lb $7,999

SONY

SDP EP9ES Dolby Digital Processor and D/A Converter
6 channels. Dolby Digital, Dolby Pro Logic, Digital Cinema, and 3D Cinema modes. 1 AC-3 RF, 1 coaxial, and 3 optical digital inputs; optical digital output. 24-bit D/A converter; motor-driven volume control. 20-character front-panel display; treble controls; digital balance and bass controls; auto source selection; speaker-size setup with bass redirection. Includes 3 pair gold-plated audio cables. 5-yr warranty. 17 x 3⅞ x 14 in; 14 lb. . . . $750

SDPE800 Dolby Digital Processor
6 channels. Dolby Digital, Dolby Pro Logic, and 41 ambience modes. AC-3 RF digital inputs; 4 video inputs; 3 digital inputs; 3 front audio outputs; L/R surround outputs; subwoofer output; optical digital output. 24-bit hybrid pulse D/A converter. Digital crossover control; digital main and surround volume controls. 17 x 3⅞ x 14 in; 14 lb $480

SEQ-711 7-Band Graphic EQ
Center frequencies at 63, 160, and 400 Hz; 1, 2.5, 6.3, and 16 kHz; ±10-dB boost/cut. Antiresonant aluminum front panel; fluorescent spectrum analyzer. Remote control. THD 0.01% at 1 kHz; S/N 100 dB. 17 x 4¾ x 11 in; 5 lb $280

SOUND CONCEPTS

SSD550 Ambience Restoration System
Enhancing movie surround reproduction by adding variable delay of 5 to 100 ms to surround channels in home-theater system. 2 stereo inputs; front/rear stereo outputs. Continuous variable delay of 5-100 ms variable high frequency roll off. Music/movie mode switch; front-channel control. THD 0.2%; S/N 90 dB. 15½ x 3½ x 9 in; 7 lb $975

IR2100 Image Restorer
Patented acoustic-cancellation circuit to restore width and depth of original stereo image. Wired remote on 15-ft cable with adjustments for speaker-position and degree of stereo enhancement; bypass switch; and volume control. S/N 86 dB. $360

SOURCE

BAL Ambience Restoration System
XLR and RCA inputs and outputs. Class A design; JFET input stage; linear gain stage. THD

0.003%; S/N 106 dB. 3-yr warranty. 17 x 4 x 8 in; 14 lb. $795

SE Ambience Restoration System
RCA inputs and outputs. Class A design; JFET input stage; linear gain stage. THD 0.003%; S/N 106 dB. 3-yr warranty. 17 x 3 x 8 in; 8 lb $489

SPL
The Hifi-Vitalizer Signal Processor
L/R tape inputs and outputs. Adjusts filtering and phase response appropriate to source input; adjusts the midrange in accordance with Fletcher-Munson equal-loudness curves providing low-level balance. Front-panel controls: bass, treble, intensity, brilliance, and stereo expander. THD 0.002%; S/N 89 dB. 8 lb $699

TADDEO
Digital Antidote II Digital Signal Processor
2 analog inputs and outputs. Patented time-domain correction for digital play. Audiophile wire and jacks optional. THD 0.0002%; S/N 101 dB. 19 x 2½ x 9 in $550

TANDBERG
TCA 4136 Dolby Digital Processor
6 channels. Dolby Digital, Dolby Pro Logic, and Hall modes. 8 audio inputs; SPDIF input; video output. Auto setup with mic; output channels can be individually controlled; front-panel LCD and on-screen displays. RF demodulator optional $1,999

TEAC
EQA-220 10-Band Graphic EQ
Center frequencies at 30, 60, 125, 250, 500 Hz; 1, 2, 4, 8, and 16 kHz; ±12 dB boost/cut. Line-level input; line-level output; tape loop. 10-band spectrum display; EQ-record and bypass switches; LED slider indicators. 17⅛ x 3¼ x 8⅝ in $129
EQA-120. As above, no spectrum display $99

EQA-190 10-Band Graphic EQ
Center frequencies at 30, 60, 125, 250, and 500 Hz, 1, 2, 4, 8, and 16 kHz; ±12 dB boost/cut. Independent L/R EQ. 10-band spectrum display; input select switch; EQ effect on/off switch. THD 0.01%; S/N 90 dB. 17⅛ x 3¼ x 8⅝ in; 6 lb. $119

TECHNICS
SH-GE90 Surround Processor
Hall, Live, Disco, Church, Stadium, and Theater surround modes. Dual mic inputs. 3-band parametric EQ with center frequencies selectable from 24 points; variable digital delay; karaoke functions including voice mute, key control, and reverb/echo; spectrum analyzer; jog dial; 6 EQ presets. THD 0.08%; S/N 86 dB. 17 x 3⅝ x 11½ in . . . $430

SH-AC300 Dolby Digital Processor
Dolby Digital, Dolby Pro Logic, and stereo modes. 3 optical and 3 coaxial digital inputs. $350

SH-AC500D Dolby Digital/DTS Processor
6 channels. Dolby Digital and DTS decoding. 2 coaxial and 2 optical digital inputs; 6 analog outputs. Test-tone generator; mute switch; dimmer control; remote control; master volume control. THD 0.007%; S/N 96 dB. 17 x 2⅜ x 11⅞ in; 8 lb $300

SH-GE70 7-Band Graphic EQ
Center frequencies at 63, 160, and 400 Hz; 1, 2.5, 6.3, and 12.5 kHz; ±12-dB boost/cut. 6 factory and 6 user presets; defeat and tape-monitor switches; 2 spectrum displays selectable for EQ-level, bar, dot, or peak-hold mode. THD 0.005%; S/N 105 dB. 17 x 3⅞ x 11 in $200

SH-GE50 7-Band Graphic EQ
±12 dB EQ. 2 coaxial and 2 optical digital inputs; 6 analog inputs. Tape record/play EQ. Source/tape selector switch; LED level indicators. THD 0.007%; S/N 110 dB. 17 x 3 x 7½ in; 6 lb $110

Yamaha DDP-2 Dolby Digital processor

THETA DIGITAL
Timebase Linque Conditioner Jitter Reducer
Coaxial and Toslink inputs; coaxial outputs; optional AT&T and Single-Mode Laser Linque outputs. Can also convert Toslink input to coaxial output. Zinc-plated steel chassis; external 9 V power supply $199

TUBE TECHNOLOGY
Fulcrum D/A Dolby Digital Processor and D/A Converter
2 BNC inputs; AES/EBU XLR input; optical input; RCA output; clock output; digital record output. Sixteen 24-bit D/A converters; four 6922 vacuum tubes per channel; 2072X oversampling. S/N 120 dB. 14 x 3½ x 10¾ in. $2,300

ULTECH AUDIO
Surround Master Dolby Digital/DTS Processor and D/A Converter
6 channels. Dolby Digital and DTS decoding. RF, ST, and Toslink digital inputs; 5 RCA inputs. Motorola digital signal processing chip; six 20-bit Burr-Brown PMC1702 D/A converters with HDCD decoder. Remote volume control $4,995
Theater Center. As above, without DTS decoding, Zoran DSP chip instead of Motorola $3,995

VAC
CVA-2 Surround Processor
6 channels. Dolby Digital, DTS, and Dolby Pro Logic decoding. 4 RCA digital inputs; AC-3 RF input; 4 video inputs; L/R front, center, L/R surround, and subwoofer outputs. 5-yr warranty. 20⅞ x 7¼ x 16¾ in $6,690

VIRTUAL LISTENING SYSTEMS
Auri PT1000 Headphone Surround Processor
Converts matrixed two-channel Dolby Surround program into virtual surround sound with standard headphones. Uses a 900-MHz transmitter/receiver pair for wireless hookup. L/R inputs; 4 Dolby Pro Logic outputs (left, right, center, surround); outputs for 2 headphone sets on receiver box. Toltec 3D processor; Dolby Pro Logic decoder. 12 user controls on receiver, including volume, bass, ambience, ear type; 2 presets for user preferences on remote control. Includes power supply, recharger, rechargeable batteries, phone-plug adapters. THD 0.025%; S/N 85 dB. 7⅛ x 4 x 1 in; 1 lb. $500
Additional Auri remote-control unit $229

Cyclone 3D Surround Processor
Produces 5-channel Dolby surround imaging effects from conventional stereo signals with a pair of speakers. Toltec 3D processor; Motorola Symphony DSP. 3D boost, auto volume control, test, and bypass switches. THD 0.01%; S/N 80 dB. 4 x 3 x 1 in. $100

VISTA
SSM2000 Noise Filter/Compressor
Dynamic low-pass filter and downward expander for about 25 dB noise reduction; compressor can be used to limit volume level. 2 RCA inputs; 2 RCA outputs. Auto adaptive tuning for best S/N. Variable compressor adjustments. THD 0.02%; S/N 90 dB. 5 x 1½ x 5¼ in; 1 lb $125

WADIA DIGITAL
Wadia 27i Digital Signal Processor
2 ST glass fiber-optic inputs; 2 SPDIF BNC coaxial inputs; 1 AES/EBU XLR input; 1 EIAJ plastic fiber-optic input; 1 XLR and 1 RCA output. Patented filter system; Clock-link output; 64X oversampling; full differential DAC architecture provides true 22-bit resolution; 24-bit digital processing; dual toroidal transformers; aluminum plate chassis. 17 x 4⅛ x 16 in; 32 lb. $8,950

Wadia 2000 Digital Signal Processor Upgrade
Upgrade for Wadia 2000 units in the field. Patented filter system; 64X oversampling; full differential DAC architecture provides 22-bit resolution; 24-bit digital processing. Digital volume control; remote control $3,690

Wadia 64.4 Digital Signal Processor Upgrade
Upgrade for Wadia 64.4 units in the field. Patented filter system; 64X oversampling; full differential DAC architecture provides true 22-bit resolution; 24-bit digital processing. Digital volume control; remote control $3,690

WEISS ENGINEERING
EQ 1 7-Band Digital Parametric EQ
Center frequencies individually variable from 16-20 kHz with Qs individually variable from 0.4-8.6; ±18-dB boost/cut. AES 3 digital input and output. 32-bit digital processing. Front-panel LCD. 88.2/96-kHz processing optional. S/N 144 dB. 10 lb $4,500

YAMAHA
DDP-2 Dolby Digital Processor
6 channels. Dolby Digital, Dolby Digital Enhanced, and Digital Movie Theater surround modes. 2 digital inputs (1 coaxial and 1 optical); 6 analog outputs. Yamaha LSI chip-set decoder. 3 dynamic-range control settings; fluorescent front-panel display; menu controls on front panel. THD 0.01%; S/N 105 dB. 17⅛ x 3⅜ x 10¾ in; 9 lb $399

DSP-E492 Surround Processor/Amplifier
6 channels. Dolby Pro Logic, Dolby Pro Logic Enhanced, Hall, Concert Video, Disco, Rock Concert, and Mono Movie surround modes. 3 audio and 3 A/V inputs; 6 line-level inputs; line-level output; subwoofer and dual center-channel outputs. 3 built-in amps. High-low speaker impedance-selector; test-tone generator; internal/external switch; DSP program access via front panel; remote control. THD 0.04%; S/N 95 dB. 17⅛ x 5 x 15⅝ in; 19 lb . . . $399

EQ-550 10-Band Graphic EQ/Analyzer
Center frequencies at 30, 60, 120, 240, and 480 Hz; 1, 2, 4, 8, and 16 kHz; ±12 dB boost/cut. Pink-noise generator; electret-condenser mic; meter-level adjust; output-level control; switchable infrasonic filter; fluorescent spectrum analyzer. THD 0.005%; S/N 105 dB $399

APD-1 Dolby Digital RF Demodulator
AC-3 RF, Toslink, and coaxial digital outputs. 4 x 2½ x 5¼ in; 2 lb. $100

Accessories by Rebecca Day

Little things that can make your system more fun to use

Part of the fun of any hobby is searching for the perfect gadget that will dress up your equipment, boost its performance, or make it easier to use. The fashion term is accessorizing. For hard-core stereo and home-theater enthusiasts accessorizing can be an extreme sport. Consider, for example, the options when it comes to the wires that connect your equipment. You can spend $50, or $6,950, for 16 feet of audiophile interconnects or speaker cable — or make do with the interconnects that came with the equipment and a few dollars' worth of 14- or 16-gauge zip cord. There's always some point of diminishing returns when it comes to spending money to improve the performance or appearance of your system, but we all have to decide for ourselves when we've reached that point.

Your No. 1 accessory priority is housing. Ditch the cinder blocks and wood planks and find a suitable rack, stand, or piece of furniture to hold your system. Options range from ready-to-assemble wood, glass, and metal structures with open shelves to full-blown wall units and custom-made furniture. You can make your equipment as conspicuous or as invisible as you like, but keep a few basics in mind: ventilation, wire management, and space. Shop for A/V furniture with an eye to both your present and future needs. Measure your existing equipment and then figure out how much more space the components you're likely to add down the road will need. That way your furniture won't become useless when you upgrade.

Audio equipment, particularly heat-producing amplifiers, needs ventilation to keep operating safely for a long time. Open shelving and A/V stands from companies such as Lovan, Salamander, Sanus, Standesign, Atlantis, FurnitureWorks, Billy Bags Design, and Bell'Oggetti allow for air flow while showing off your high-tech gear. Prices for A/V racks start at roughly $200 and go up to $2,500 and more.

Bell'Oggetti punches holes in the structural tubes of its black metal ready-to-assemble furniture so that you can thread cables through the supports and keep them out of sight. The distinctive shelves on the company's furniture, which ranges in price from about $400 to $2,600, are made of tempered safety glass.

The Billy Bags Design's built-to-order A/V furniture ($538 to $2,900), on the other hand, features steel-frame tubing that is designed to be filled with sand, which is said to reduce transmission of vibrations from the room or the equipment. The ¾-inch-thick, high-pressure-laminate shelves come in a variety of finishes including faux marble, granite, woodgrain, and graphite.

If you need to conceal equipment to keep peace in the household, there's a wide variety of traditional furniture designed to accommodate TVs and A/V components. Bush Industries' ready-to-assemble furniture features storage space for discs and tapes, adjustable shelves, and tempered glass doors. The back panels are perforated for ventilation and cable management. Prices range from $100 for a three-shelf audio cabinet to $600 for a home-entertainment center with space for a 35-inch TV.

Although some A/V furniture makes provision for speakers, it's usually better to place them outside of a cabinet. That lets you position them for optimal imaging and also reduces the possibility of cabinet resonances. There's been an industry-wide movement to downsize speakers over the past few years so that they fit more comfortably into the living environment. The ironic upshot is that you often have to place these new small speakers on stands to put the tweeters at ear level when you're seated for listening or viewing.

Many of the companies that make A/V racks also sell lines of speaker stands, which can range in price from under $50 to

AS GOOD AS IT GETS (COLUMBIA TRISTAR HOME VIDEO)

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$500 a pair depending on styling, construction, and features. To determine how tall a speaker stand you need, measure the distance between your ear height and the floor when you're seated and subtract the speaker's height. In addition to putting speakers at the correct height, good stands can keep small speakers from moving around during loud passages. Premium stands from Sanus, Atlantis, and others use solid wood pillars or hollow steel pillars that are designed to be filled with sand or lead shot. Some stands also come with spiked feet, which can help make a solid connection to the floor through carpeting or rugs.

When you can't mount a speaker on a stand, the next best thing is to mount it on a wall or hang it from the ceiling. Multichannel surround sound makes space-saving solutions for speaker placement more important than ever. Some companies' satellite speakers can be used with wall brackets, either their own or those offered by companies like OmniMount. Speaker-mounting kits range from $50 to $80 a pair and often include a pivot joint that lets you aim the speakers. Finding a bracket to match a particular model of speaker — if its manufacturer doesn't offer a kit — can be a challenge. The OmniMount Web site has a chart that helps you select the right bracket based on the desired mounting location, the screw thread size, the number of threaded inserts, and the speaker's weight.

Another home-theater challenge is corralling those stacks of recordings that seem to take over a room. If your collection dates back a few years, you could have LPs, laserdiscs, audio and video cassettes, and CDs to contend with, plus newer formats like DVD and MiniDisc (MD). DVDs are the same size as audio CDs, but many are packaged in boxes wider and thinner than a videocassette shell. Prerecorded MDs come in a box just under an inch narrower than the cases for audio cassettes, but blank MDs come in much tinier cases.

Given the diversity of sizes and shapes of past, present, and future recorded media, it's wise to look for multipurpose storage. You can double up on LP and laserdisc storage with units that are wide and deep, and you can combine DVDs, CDs, audio and video cassettes, and video games in bookshelf-style units from companies like Leslie-Dame, Soricé, and HY-Q Enterprises. Look for adjustable shelves that can be adjusted to fit boxes of any height. Drawer-based cabinets from Lorentz and Can-Am deliver the same flexibility in a hideaway format.

Plastic storage units can be found for as little as $10, and solid wood cabinets can run as high as $1,500 for expanded versions made with high-quality materials such as tempered-glass doors. Some models are stand-alone units, while others are modular to allow for expansion as your collection grows. The file-cabinet-size Cube ($258) from Lorentz Design, for example, can be stacked, and the company's 23 x 19½ x 12¼-inch Cube comes in one-, three-, four-, and five-drawer versions.

D

A. ALTRA GXTV TV STAND B. MONSTER CABLE S-VIDEO POD C. pARTicular ODYSEE CD RACK D. BELL D'OGGETTI WALL SPEAKER MOUNT E. SALAMANDER DESIGNS STANDS

CanAm's three-drawer modular cabinets are made of heavy-duty textured steel and hold 810 CDs. All of CanAm's products fit the same 37½ x 20-inch footprint so that they can be stacked. In addition, the drawers employ a safety-interlock feature that prevents you from opening more than one at a time and having the cabinet topple over. "When you're storing thousands of CDs, you have to be careful about safety," says Jerry Pila, president of CanAm, "because a drawer of 270 CDs weighs 65 pounds."

If you don't have a lot of CDs and want to make a design statement, there are swiveling tower units like the Sonax MediaMaxx. Other relatively low-capacity CD racks have become 1990s interior-design clichés, like the popular wavy-metal stands and illuminated stands that appear frequently in home-decorating magazines and "smart design" catalogs and stores. The problem with these design-oriented racks is a lack of expandability, but they might fit into a family or living room when a mega-cabinet won't.

You also need portable storage when you take your tunes on the road. CD wallets and photo-album-size disc carriers have plastic liners for discs and CD booklets so you don't have to tote around bulky jewel boxes. Prices for nylon cases start at $12 for a small wallet and go up based on storage capacity. Some of the more unusual and useful portable storage products include Case Logic's CD Visor ($12), which holds a dozen discs in a thin panel that attaches to a car's visor. If you like to have your own music while you work out, Case Logic's belly bags hold either a cassette or CD player plus a selection of tapes or discs.

Another way to take music with you is to expand your audio system into other rooms in your home. Receivers are typically equipped to feed a remote room via an alternate ("B") pair of speaker terminals, but for more extensive multiroom systems you'll need an outboard speaker selector. Add-on speaker selectors also control the overall impedance so that the amplifier doesn't overheat. Cost ranges from $100 to $400 depending on the number of outputs.

Ideally, you want to be able to control volume from each room independently, and that's why such manufacturers as Sonance, Russound, and Niles Audio supplement their speaker selectors with in-wall volume controls. Speaker selectors with built-in volume controls make it unnecessary to cut a separate hole in the wall of a remote room, but the drawback is that you have to control volume from the source equipment in the main room rather than remotely.

There are two types of in-wall volume controls: premium controls that don't reduce impedance, and lesser controls that do. The first type leaves impedance-matching up to the speaker selector and allows you to turn a pair of speakers to full volume without risking damage to the amplifier or the volume control. Impedance-matching volume controls don't require a speaker selector, but they are designed for low-volume background listening. Volume controls typically run $60 to $75.

What good is a great stereo or home-theater system, or disc/tape collection, if you don't maintain it? For CDs, DVDs, and LPs, that means using cleaning products ($5 to $20) to remove any contaminants that could degrade the sound. Even though CDs and DVDs, unlike LPs, are noncontact media, optical-disc cleaning products can help you preserve your collection. Skin oils from fingers, not to mention spilled Coke or coffee, can eat away at a disc's protective coating, so it's a good idea to have some kind of cleaner on hand. In addition, scratches on a disc can interrupt play. Inexpensive CD scratch-repair kits are available from Discwasher, Allsop, and others.

On the hardware side, cassette-deck and VCR tape-head cleaners can remove oxide particles shed by tapes. Some tape-deck cleaners are dry, while others use a cleaning solution; TDK, which sells both, recommends a dry cleaner for heavy cleaning jobs. A demagnetizer will remove residual magnetism from the tape path and the heads themselves (such magnetism can increase hiss and dull the overall sound). To keep the laser lens of your CD or DVD player free of dust and other contaminants, you can invest in a laser-lens cleaner — this can be particularly useful for portable and car players.

In radio listening, sometimes you have to give the signal a boost. If you listen to a lot of broadcast music at home, it could make sense to upgrade your FM antenna. Most receivers and

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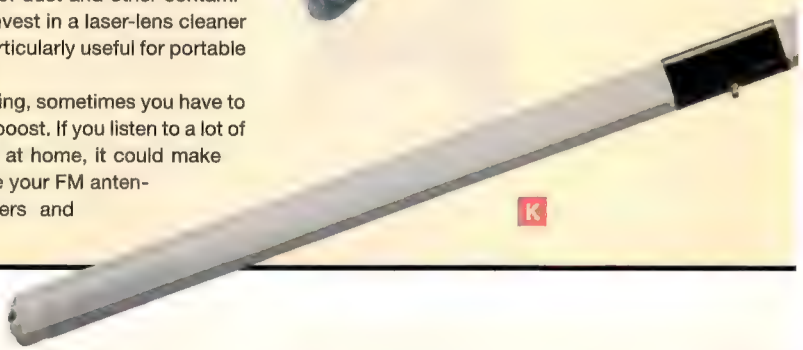

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separate tuners come with simple wire dipole antennas, which may do the trick if you live close to transmission towers that are grouped near each other, such as all on top of the same downtown skyscraper or hilltop radio tower. But if you need to rotate the antenna to pull in different stations, that's difficult to do with a dipole, and the result is usually untidy. In addition, if your favorite station has a weak signal, an amplified antenna like those from Parsec, Recoton, and Terk can boost the signal. Indoor antennas start at about $15 for nonamplified versions and go up to $120. An outdoor antenna for rooftop installation might be needed if an indoor antenna can't do the job. Prices range from under $15 to about ten times that amount.

An amplified antenna is just one of many devices in a home entertainment system that come with a power plug. Your receiver can accommodate a couple of devices, but the average A/V system easily exceeds the capacity of a typical wall outlet. A power strip with a surge protector can provide much-needed outlet relief as well as protect your equipment from damaging electrical surges and spikes.

Generally, the more you spend on surge-protection devices, the better the protection — up to a point. No device will withstand a direct lightning hit, for example. The more sophisticated surge protectors from companies like Panamax, Newpoint, and APC also offer sequential power-up, to stagger the power draw, and include line conditioning to clean up electromechanical and radio-frequency interference. Some surge protectors also protect phone lines for modems used in satellite receivers or Web-browsing boxes. Surge protectors for home entertainment use range in price from $10 to $300.

When your signal is pure and your equipment is housed and protected, the only thing left to do is to sit down and enjoy the music. In these days of home theater and multiple components, that's a lot easier to do if you can consolidate your remote-control devices. With manufacturer-supplied remotes becoming more versatile, the market for add-on remote controls is very competitive whether you're looking for a $20 remote to control a few components or a $200 remote that can control dozens. New twists on the old remote include built-in modems that can download codes for future products as well as touchscreen-based models that eliminate button confusion.

Whether you want to dress up your equipment, upgrade your cables, or downsize your collection of remotes, there are shelves full of accessories that can help you put the "finishing touches" on your entertainment system. Beware of the curse of the audiophile, though. Once you start tweaking, you'll soon discover that your system will always be a work in progress.

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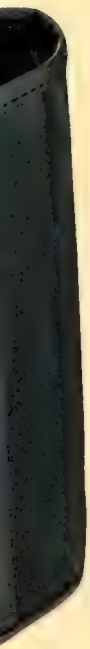

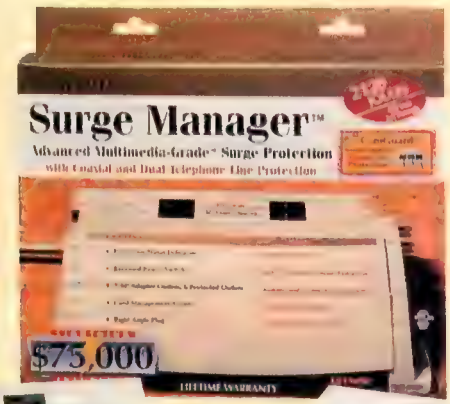

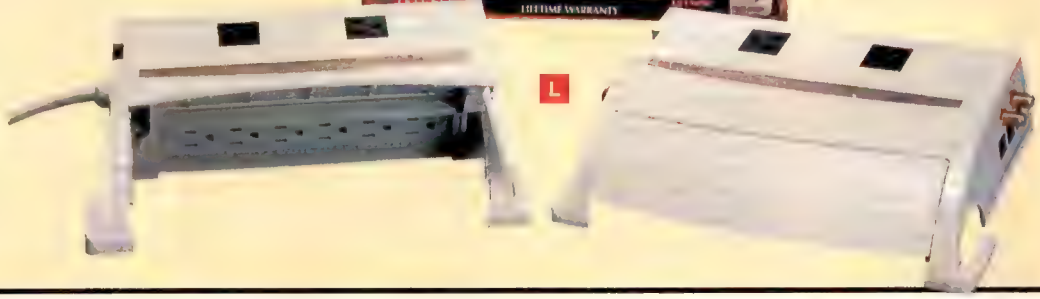

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G. AURORA CUSTOM MILLWORK CD RACK H. CD PLAYRIGHT DISC CLEANER/REPAIR KIT I. MAXELL MINIDISC LENS CLEANER J. CASE LOGIC CDV-20 CD ORGANIZER K. TERK TV50 ANTENNA L. NEWPOINT SURGE MANAGER

Accessories Manufacturers

***See the Directory of Manufacturers on page 233 for mailing addresses, phone numbers, and Web addresses of companies listed here. Many of them also make audio or A/V components that appear elsewhere in* Stereo Buyer's Guide 1999.**

ACCUPHASE
Power-line conditioner/enhancer

ACOUSTEX
Speaker grille cloth

ACOUSTICAL SOLUTIONS
Acoustical treatments, wall coverings

ACROTEC
Cables and connectors

ACURUS
Power-line filters/enhancers

ADCOM
Power-line filter/enhancer, speaker selectors

ALLSOP
Media cleaning and maintenance, carrying cases, cable guides

ALON
Cables and connectors

ALPHA-CORE
Cables and connectors

ALTRA FURNITURE
A/V furniture

AMERICAN HYBRID TECHNOLOGIES
Cables and connectors

AMERICAN RECORDER TECHNOLOGIES
Cables and connectors, media cleaning and maintenance, media carrying cases, wire and cable covers

ANNIS
Component maintenance

APATURE
Cables and connectors

APC (American Power Conversion)
Power-line conditioners/enhancers

APS
FM antennas

ARGENT ROOM LENS
Acoustic treatment

A.R.T.
Antiresonant feet

ARTECH
Blu-Tack speaker pads

ASC
Acoustic treatments

ATLANTIS
A/V furniture, speaker stands

AUDIO ADVANCEMENTS
Turntable weights

AUDIO ELECTRONICS
A/V furniture, cables and connectors, media racks

AUDIO INSURGENTS
Cables and connectors, vibration damper

AUDIO MACHINE & DESIGN
Speaker/component stands

AUDIO NOTE
Cables and connectors

AUDIOPLEX TECHNOLOGY
Speaker/recording selectors, remote/system controllers

AUDIO POWER INDUSTRIES
Cables and connectors, power-line filters/enhancers

AUDIOPRISM
A/V enhancement, cables and connectors, power-line filters/enhancers, FM antennas

AUDIOQUEST
Cables and connectors; spikes, feet, and related products

AUDIOSOURCE
CD cleaning and maintenance

AUDIOSTREAM
Cables and connectors

AUDIOTRUTH
Cables and connectors

AURORA CUSTOM MILLWORK
Media racks

BASIS
LP clamp

BEL
Cables and connectors

BELL'OGGETTI
A/V furniture, speaker stands

BIB
CD cleaning/maintenance

B-I-C AMERICA
Cables and connectors

BILLY BAGS DESIGN
A/V furniture, media racks, speaker stands, spikes, feet

BLUE CIRCLE
Power-line filters/enhancers

BRIGHT STAR AUDIO
A/V furniture, component mounts

BRYSTON
Cables and connectors

BUSH INDUSTRIES
A/V furniture

CAIG LABORATORIES
Media cleaning and maintenance

CAMELOT TECHNOLOGY
Cables and connectors, cable armor, CD cleaning and maintenance

CAMPAIGN AUDIO DESIGNS
Cables and connectors, spikes, feet

CAN-AM
Media storage cabinets

CANTON
Cables and connectors

CARDAS
Cables and connectors

CASE LOGIC
Media carrying cases

CD PLAYRIGHT
CD and DVD maintenance and storage products

CELLO
Cables and connectors, source selector

CHANNEL MASTER
FM antennas, rotators

CINEPRO
Power-line filters/enhancers

COGNEO DESIGNS
CD carrying cases

CREEK
Remote volume control

CSI
Speaker selector

CUSTOM CONNECTIONS
Cables and connectors

DAVIDSON-WHITEHALL
CD storage shelves

DB SYSTEMS
Cables and connectors, test CDs, phono products

DENNESEN
Phono products

DENON
MC cartridge pre-preamp, phono products

DIC DIGITAL
Blank media

DISCWASHER
Media cleaning and maintenance, media carrying cases, CD/cassette adapters

DPA DIGITAL
Cables and connectors

D.W. ELECTROCHEMICALS
Contact-enhancing solution

DYNACLEAR
Tube maintenance products, tweeter enhancer

DYNAUDIO
Speaker stands

EMERSON BY JASCO
Cables and connectors, CD cleaning/maintenance, FM antennas, media carrying cases, headphone extension kit, speaker stands

ENTEC
Power-line filters/enhancers

EPIC DESIGN STUDIOS
CD carrying cases, ID system for CDs

ESOTERIC AUDIO
Cables and connectors

ESOTERIC SOUND
Recorder switcher/selector

EXPRESSIVE TECHNOLOGIES
Cables and connectors, phono products

FUJI
Blank media

FURNITUREWORKS
A/V furniture, speaker stands

GENEVA
Cables and connectors, media cleaning and maintenance, media racks

GEORGE KAYE AUDIO LABS
Tube checker

GERSHMAN ACOUSTICS
Acoustic treatments

GOLDSTANDS
A/V furniture, speaker stands

HARRISON LABORATORY
Noise limiters

HY-Q ENTERPRISES
Media storage shelves

ILLUMINATIONS
Cables and connectors

IMMEDIA
Component maintenance, power-line conditioner

INTERACTIVE LABS
Power strips

J. A. MICHELL
Cables and connectors, phono products

JENA LABS
Cables and connectors, laserdisc/LP sleeves

JVC
Cables and connectors

KAB ELECTRO ACOUSTICS
Media cleaning and maintenance; spikes, feet, and related products

KENWOOD
Remote control, outboard RF demodulator

KIMBER KABLE
Cables and connectors

KONTAK
Interconnect cables, contact cleaner

THE LAST FACTORY
Media cleaning and maintenance

LAT INTERNATIONAL
A/V enhancements; cables and connectors; spikes, feet, and related products

LEGACY AUDIO
Cables and connectors

LESLIE DAME ENTERPRISES
A/V furniture, media racks

LEXICON
Remote/system controllers

LINDSAY AUDIOPHILE
Cables and connectors

LINN
Cables and connectors

LORAN
Blank media

LORENTZ DESIGN
Media storage cabinets

LOVAN
A/V furniture, speaker stands

LUXMAN
Cables and connectors, switchboxes

MAGNUM DYNALAB
FM antennas

MARANTZ
Remote control

MAXELL
Blank media, media cleaning and maintenance

MBL
Speaker stands

MERRILL AUDIO
Component racks

MIT
Cables and connectors, power-line filters/enhancers

MITSUBISHI
A/V furniture

MOGAMI
Cables and connectors

MONSTER CABLE
Cables and connectors, custom installation products, remote/system controls

MOREL
Speaker stands

MSB TECHNOLOGY
Acoustic-isolation plates, cables and connectors, digital switcher with coaxial-to-optical converter

MTX
Speaker/amplifier selector

MUSICAL CONCEPTS
Cables and connectors

MUSICAL DESIGN
Cables and connectors

MUSIC HALL
Component mounts

NAIM
Cables and connectors

THE NATURAL CHORD
Cables and connectors

NCT AUDIO/GEKKO
Flat speaker wire

NEWPOINT
Power-line conditioners/enhancers

NILES AUDIO
Custom-installation products, remote/system controls

NITTY GRITTY
Media cleaning and maintenance

NORDOST
Cables and connectors

OMNIMOUNT
Speaker-mounting systems

ONKYO
Remote/system control

OPUS THREE
Turntable mat

ORTOFON
Phono products

OSIRIS AUDIONICS
Component mounts, speaker stands

Accessories Manufacturers

PAC
Cables and connectors, power-line filters/enhancers

PANAMAX
Power-line filters/enhancers, power strips

PANAVISE
Speaker mounts

PARASOUND
Cables and connectors, custom-installation products

PARSEC
AM/FM antennas

PARTICULAR CONTEMPORARY DESIGN
A/V furniture, CD racks

PER MADSEN DESIGN
Media racks

PFANTONE
Antenna, blank media, cables and connectors, media cleaning and maintenance, media carrying cases

PHOENIX GOLD
Cables and connectors

PIONEER
Blank media

PIONEER ELECTRONICS TECHNOLOGY
Cables and connectors

POLY CRYSTAL
A/V furniture, speaker stands

PREMIER
A/V furniture, caster kit, cable-management kit, speaker stands

PRISMA
Cables and connectors

PROGRESSIVE STRUCTURES
Media racks, speaker stands, shelves

PROLINE
Media cleaning and maintenance, media carrying cases

RADIO SHACK
AM/FM antennas, blank media, cables and connectors, media cleaning and maintenance, media carrying cases, power strips, remote/system controls, speaker stands

RANE
Signal balancer

RECOTON
Blank media, cables and connectors, media cleaning and maintenance, media carrying cases

RF-LINK
A/V remote extenders, remote control

ROTEL
Custom-installation products, remote/system controls

RUSSOUND
Remote/system controls, speaker selector

SALAMANDER DESIGNS
Component shelves/mounts; speaker stands; spikes, feet, and related products

SANUS SYSTEMS
A/V furniture, speaker stands

SAUDER WOODWORKING
A/V furniture

SHURE
Stylus tracking-force gauge

SIGNAL GUARD
Component mounts

SIMPLYPHYSICS
Component mounts

SONANCE
Cables and connectors, remote volume controls, speaker selectors

SONAX
CD racks

SONY
Blank media, media cleaning/maintenance

SORICÉ
A/V furniture

SOUND ANCHORS
A/V furniture, video-monitor stands

SOUNDOLIER
Remote/system control, speaker selector

SOUND ORGANISATION
A/V furniture

SOUNDSTREAM
Cables and connectors, remote/system controls

STANDESIGN
A/V furniture, shelves, speaker stands

STANTON
Media/component cleaning and maintenance

STINGER
Cables and connectors

STRAIGHT WIRE
Cables and connectors

TDK
Blank media, media cleaning/maintenance, media carrying cases

TAPERWIRE
Cables and connectors

TARA LABS
Cables and connectors

TENDERFEET
Spikes, feet, related products

TERK TECHNOLOGIES
AM/FM antennas

TICE AUDIO
Cables and connectors, power-line filters/enhancers

TOWNSEND CABINETMAKERS
A/V furniture, media racks

TRANSPARENT AUDIO
Cables and connectors, power-line filters/enhancers

TRIBUTARIES
Cables and connectors

VAC
Audio tubes

VAMPIRE WIRE
Cables and connectors

VOGEL'S
Speaker stands, wall mounts

XANTECH
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KEITH OLSEN'S GOODNIGHT LA

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Speakers

No doubt about it — the most important audio component

Speakers are personal. When it comes time to buy some, whether it's a stereo pair or a full-blown home-theater suite, you have to go with the ones whose sound you like. It won't help to tell you what brands and models I happen to like if you don't listen for the same things I do. But I can share few guidelines.

Shopping was a lot easier in the good old days of stereo, where you chose a pair of speakers and that was it. Most people today want a home-theater setup, and that means picking not only the front stereo pair but also a center-channel speaker, essential for convincing reproduction of movie dialogue; a pair of side or rear surround speakers, for ambient effects, low-flying helicopters, and the like; and a subwoofer, to extract the last drop of deep bass from all those rumbles, bangs, and booms.

Most speakers are variations on a few basic designs. Two-way speakers have a woofer and a tweeter; three-way speakers divide the frequencies between a woofer, a midrange driver, and a tweeter. Both types can deliver excellent sound. Most speaker enclosures are either sealed or ported (vented).

BOSE ACOUSTIMASS 10 SYSTEM

Some speakers are designed to "focus" their sound and use a vertical array of similar drivers to accomplish that. The simplest array consists of two similar woofers, one above and the other below a central tweeter. Such an arrangement spreads midrange sound in the horizontal plane and restricts its dispersion in the vertical plane. The idea is to provide smooth coverage over a wide listening area while minimizing the amount of sound reflected from the room's floor and ceiling. Reflected sound can interfere with the direct radiation at certain frequencies and places in the room, and thus "color" the sound. Front speakers for home theater certified by Lucasfilm as meeting its THX standards must have this type of radiation pattern.

Speaker design tends to be dominated by concerns over bass reproduction, and, as a general rule, powerful, clean, deep bass doesn't come in small packages. The laws of physics demand a tradeoff between a speaker's size, efficiency, distortion level, and bass extension. It takes a lot of air movement to produce high bass levels, and that means using either a large speaker cone, or woofer, or a number of smaller ones with an equivalent total radiating area. You can get extended ("deep") bass from a small cone, but not *loud* deep bass that's free of distortion.

The size/bass tradeoff can be manipulated to advantage by venting or porting the enclosure ("vent" and "port" mean the same in this context), or by using a passive radiator, a cone that's driven by the air pressure in the box rather than electrically. Woofers radiate as much sound from the backs of their cones as from the fronts, but the rear-emanating sound waves are out of phase with the front ones. As the cone moves forward and compresses the air before it, there's a reduction in pressure behind it, and the opposite when the cone moves backward. Either way, the front and back waves are always moving in opposite directions, and if they meet, they cancel each other and there's no sound. A speaker enclosure keeps the woofer's front and back waves from canceling. (Tweeters don't have this problem to the same degree because the wavelengths involved are much shorter.)

An acoustic-suspension enclosure is a sealed box that traps and absorbs the rear-directed sound energy. The trapped air also acts like a spring behind the cone and helps reduce distortion, so such speakers tend to sound clean and tight. But since the rear energy is wasted, they also tend to be inefficient, especially small ones.

Vented or ported enclosures and passive radiators both make use of the rear energy. They are "tuned" to the woofer so that the energy radiated from the port or passive radiator emerges in phase with the direct sound. This works only over a relatively narrow band of frequencies. At very low frequencies, the port radiation again gets out of phase with the direct radiation and tends to cancel it, so a ported speaker's low-end response falls rapidly, which can make it sound a little resonant.

Ported speakers also tend to produce more distortion in the deep bass than acoustic-suspension speakers because cone motion becomes uncontrolled at very low frequencies. Nonetheless, ported speakers are popular because they can usually eke out more bass extension from a given size of box than an acoustic-suspension speaker.

It's not always necessary to use full-range speakers in a ste-

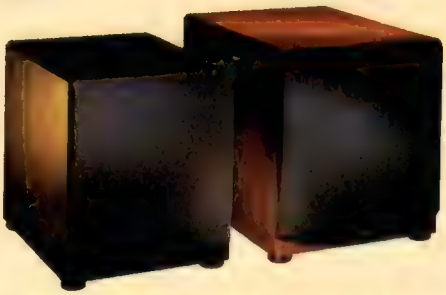
reo setup or for all four, five, or more channels in a home-theater system. Since it's difficult to localize bass sound, the bass frequencies from all of the other channels can be directed to one or more subwoofers, thus relieving the main speakers of that burden. Far smaller main speakers can then be used without impairing the overall response or power-handling ability of the system. In fact, the Dolby Digital format calls for at least one subwoofer to handle the LFE (low-frequency effects) channel — the ".1" in "5.1 channels" — so why not let it handle the bass from the main channels as well?

NILES OS-20

Subwoofers are designed to do only one job, and they usually do it well. Today, most subs are powered, meaning they have power amps built in and require nothing more than a line-level signal from your system. Most can sense the presence of an audio signal at the input and instantly "wake up"; when nothing's happened for a while, they go back into a low-power standby mode.

Powered subwoofers usually have an internal electronic crossover that routes the appropriate band of signals to the subwoofer and the balance to the main speakers. Invariably, there's also a gain control to match the subwoofer's sound level with that of the other speakers. The crossover should be adjustable over a fairly wide range — say, from 80 to 150 Hz. It's best to use as low a crossover setting as possible to minimize the chance that you'll be able to pinpoint the subwoofer's location by ear. You have to temper this caution with the capabilities of the other speakers, however. The lower the sub's crossover frequency, the more bass the main speakers will have to handle, and the larger they'll have to be.

Dipole speakers, recommended by Lucasfilm and others for surround-channel use, have drivers on both the front and back, and they radiate out-of-phase information in both directions. That's a no-no if you want appreciable bass output, but Lucasfilm does not expect surround speakers to have extended bass response (the subwoofer will handle that). It does, however, want them to produce a diffuse soundfield. Dipole speakers produce an acoustic "null" (no sound) midway between their front and back surfaces. They're meant to be placed so that the viewing position lies in that null and the listener can't hear any direct sound from them, only sound that has been reflected around the room. They are typically designed to be mounted on the side walls, with one set of drivers facing the front of the room and the other set facing the back.



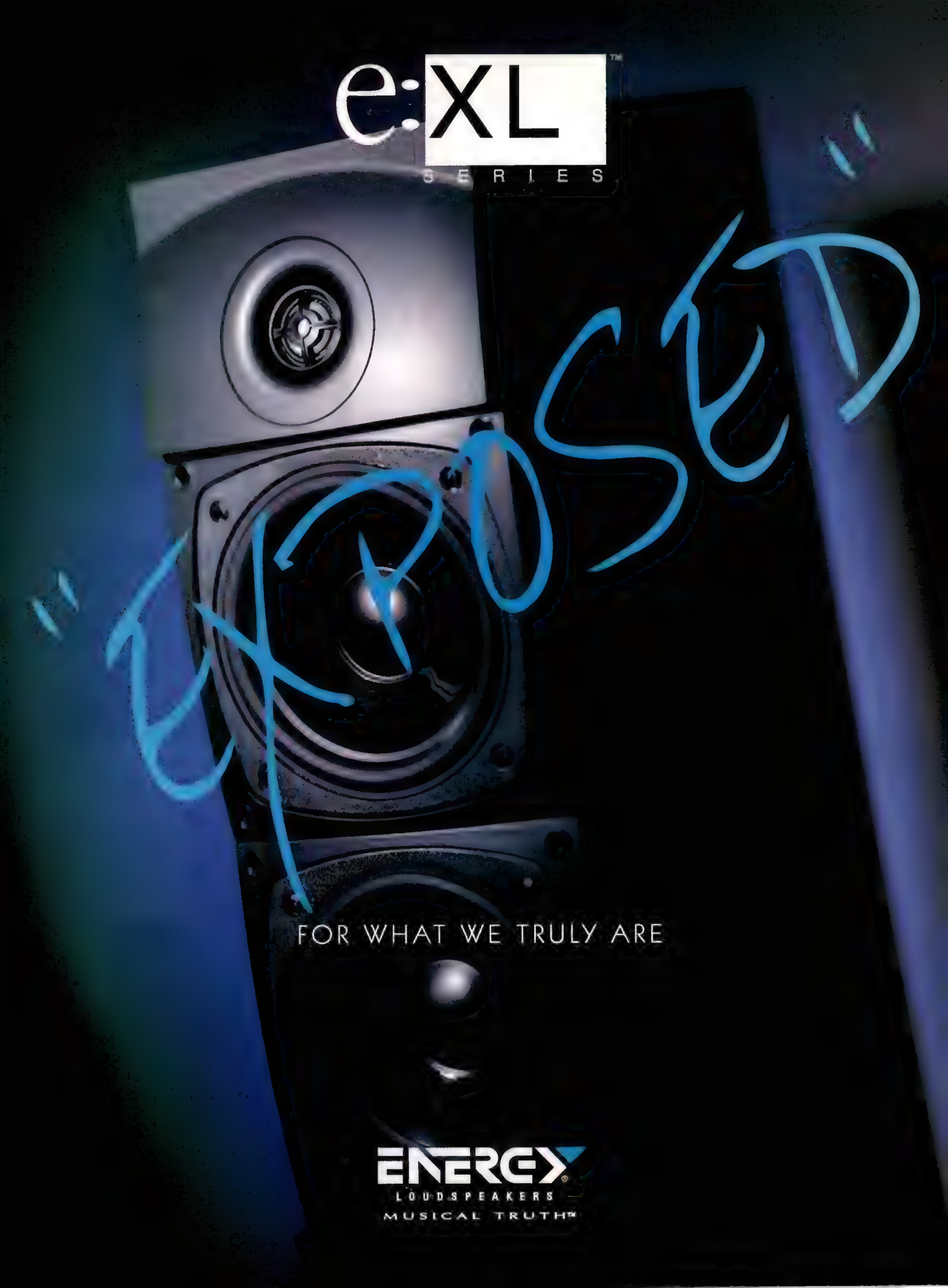
PARADIGM POWERED SUBS

Not everyone agrees that dipoles are a good idea, especially when it comes to 5.1-channel soundtracks that have significant full-range information in all five main channels. Therefore, some people prefer monopole (ordinary) or bipole speakers for this application. Bipole speakers have drivers on both front and rear just like dipoles, but a bipole's drivers are wired so that their radiation is in phase. The radiation pattern is more spherical than that of other speakers, and their proponents find that attractive. Bipoles, however, are usually even more affected by room acoustics and placement in the room than other types of speakers.

I've discussed only the most basic types of speakers. Electrostatic and planar-magnetic speakers, for instance, which eschew round drivers for large ribbons and panels, have strong followings. The emerging flat-panel category, where the speaker can be hung on the wall like a painting, shows promise. There are also in-wall and ceiling speakers. In the past, these tended to offer mediocre sound at best, but the boom in custom home-theater installation has spurred some of the better manufacturers to raise the standard. Outdoor speakers is another up and coming category. These can offer decent sound in weatherproof enclosures, and they can take on imaginative forms — there are dozens of listings in the following pages for speakers meant to look like rocks, moss-encrusted and otherwise.

No matter what kind of speaker you buy, though, I can only repeat what I said at the beginning: trust your ears. Your best bet is to shop for speakers at an audio/video specialty store where the dealer will let you audition various speakers at home — or at least return any purchases you're unhappy with for credit or exchange. If you can only listen at the store, though, bring along a couple of CDs you know well, and have the dealer play them at a volume you're comfortable with. If you take your time and listen carefully, you'll find the speakers that are right for you.

— Edward J. Foster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Prepare yourself for a high performance sonic encounter. Incredibly accurate, musical and totally transparent, the all new "e:XL™ Series" from Energy® Loudspeakers is a radical departure in speaker design, where high-fashion meets hi-tech.

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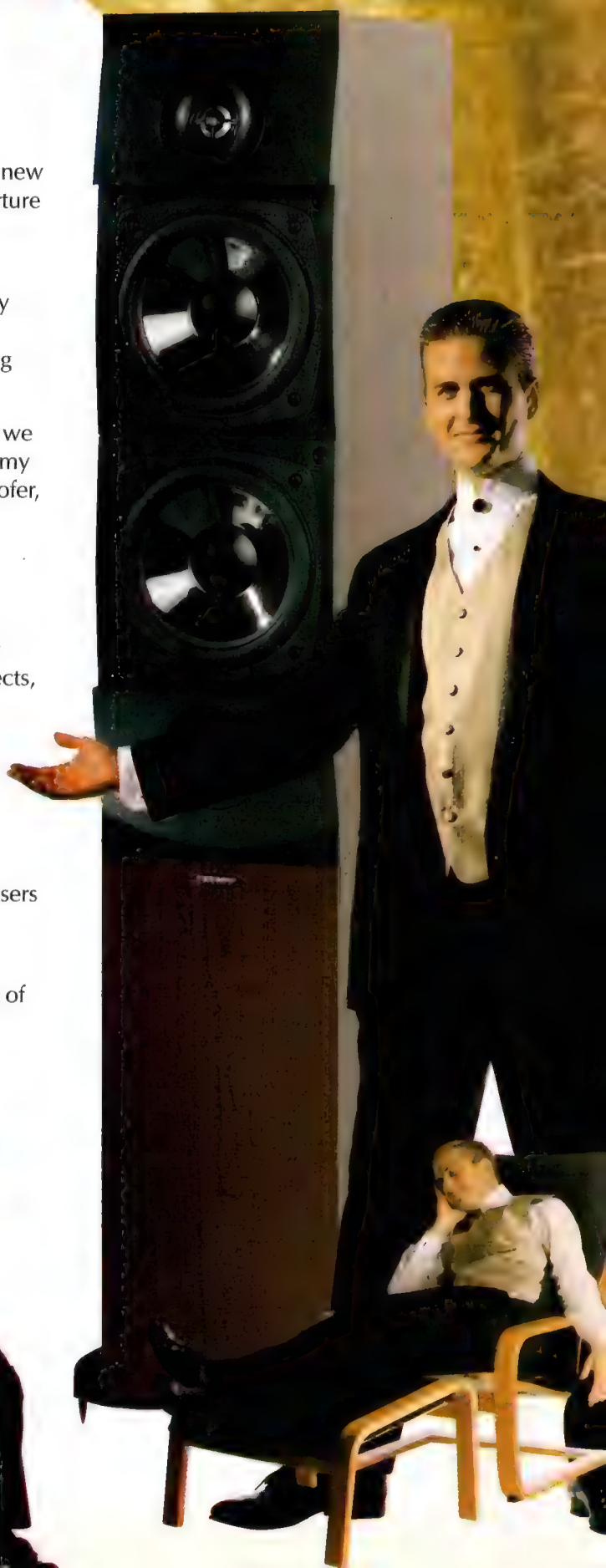
Our killer new look is more than just a pretty face, it's how we improve dispersion and combat distortion, the absolute enemy of great sound. The "e:XL™ Series" uses all new tweeter, woofer, baffle and cabinet construction technologies to virtually eliminate its causes.

The result is sound that is an absolutely accurate reflection of the recording—natural highs, rich mid-range, and deep, rhythmic bass. Add to this the benefit of wide dispersion for a more realistic sound stage where characters, or sound effects, appear in their proper place.

Naturally, for home theater lovers, this powerful, magnetically shielded line also features a center channel and rear speakers making the assembly of completely timbre matched systems suited to any application, a snap. The "e:XL™ Series" is easy to drive and compatible with all quality audio/video receivers and amplifier/ processers featuring Dolby Pro Logic™, Dolby® Digital Surround™ and DTS™.

The bottom line. Never before has this level of high performance sound looked so good — at such an attractive price!



ABSTRACT ACOUSTICS

ASX-PRO.1500 3-Way Speaker
Bass-reflex design with 15-in side-firing polypropylene woofer, 6½-in polypropylene midrange, and 1-in silk-dome tweeter. Power handling 300 W rms; FR 35 Hz-20 kHz; sens 91 dB; imp 4 ohms. 19 x 40 x 12 in $1,250/pr

ASX-PRO.800 4-Way Speaker
Bass-reflex design with two 12-in fiber woofers, one 5-in fiber midrange, and one ¾-in ferrofluid-cooled titanium-laminate-dome tweeter. Built-in integral subwoofer. Power handling 300 W rms; FR 35 Hz-20 kHz; sens 91 dB; imp 8 ohms. 14½ x 40 x 12½ in $800/pr

ASX-PRO.400 3-Way Speaker
Bass-reflex design with 12-in fiber woofer, 5-in fiber midrange, and ¾-in ferrofluid-cooled titanium laminate-dome tweeter. Hybrid MDF cabinet. Power handling 150 W rms; FR 35 Hz-20 kHz; sens 92 dB; imp 8 ohms. 14½ x 32 x 12½ in $450/pr

Model 102DIII 3-Way Speaker
Two 8-in woofers and one ¾-in dome tweeter. Power handling 150 W rms; FR 35 Hz-20 kHz; sens 90 dB; imp 8 ohms. 15¾ x 36 x 10 in $450/pr

ASX-PRO12.SUB Powered Subwoofer
12-in front-firing PVA treated woofer; 100-W amp. Variable crossover. MOSFET output. Auto on/off; soft turn-on. FR 30-150 Hz. 14½ x 20 x 15 in $429

ASX-PRO.120 3-Way Speaker
Bass-reflex design with 10-in polypropylene woofer, 5-in fiber midrange, and ¾-in dome tweeter. Hybrid MDF cabinet. Power handling 125 W rms; Sens 91 dB; imp 8 ohms. 12½ x 30 x 12½ in $350/pr

Model 101DII 2-Way Speaker
8-in polypropylene woofer with passive radiator and ¾-in dome tweeter. Power handling 100 W rms; FR 40 Hz-20 kHz; sens 89 dB; imp 8 ohms. 12 x 32 x 10¼ in $280/pr

ASX-PRO50A/V 2-Way Bookshelf Speaker
Bass-reflex design with 6½-in woofer and ¾-in ferrofluid-cooled hard-polymer tweeter. Mirror-image alignment; magnetic shielding. Power handling 70 W rms; FR 60 Hz-20 kHz; sens 90 dB; imp 8 ohms. 11¾ x 8 x 8½ in $259/pr

CCD-100 2-Way Center-Channel Speaker
Dual 4½-in polypropylene woofers and one ¾-in tweeter. Spring connectors and resonance-free MDF cabinet. Power handling 100 W; FR 55 Hz-20 kHz; sens 88 dB; imp 8 ohms. 6 x 17 x 7½ in $149

Micro-Monitor 2-Way Satellite Speaker
4-in woofer and ½-in ferrofluid-cooled dome tweeter. Molded enclosure. Includes speaker wire and mounting brackets. Power handling 60 W max; FR 55 Hz-20 kHz; sens 88 dB; imp 8 ohms. 4½ x 7¼ x 4½ in $120/pr

Micro-Center 2-Way Center-Channel Speaker
Dual 4-in polypropylene woofers and one ¾-in tweeter. Molded enclosure. Power handling 80 W max; FR 80 Hz-18 kHz; sens 88 dB; imp 8 ohms. 14½ x 5 x 5 in $110

ACOUSTIC ENERGY

AE520 3-Way Speaker
Bass-reflex design with two 5¼-in metal-cone woofer, one 5¼-in metal-cone midrange, and one 1-in silk-dome tweeter. ¾-in MDF cabinet; magnetic shielding. Biampable terminals. Includes plinth base with cast-alloy spikes. Power handling 225 W. Black, antique, or Georgian ash. 5-yr parts-and-labor warranty $2,799/pr
AE509. As above, one 5¼-in metal-cone woofer. Power handling 200 W $2,199/pr

AE505 2-Way Speaker
Bass-reflex design with 5¼-in metal-cone woofer and 1-in silk-dome tweeter. ¾-in MDF cabinet; magnetic shielding. Biampable terminals. Includes plinth base with cast-alloy spikes. Power handling 125 W. Black, antique, or Georgian ash. 5-yr parts-and-labor warranty $1,799/pr

AE108S Powered Subwoofer
12-in woofer; 150-W amp. Speaker- and line-level inputs and outputs. Variable crossover; volume control; phase switch. Includes spikes. FR 35-150 Hz ±3 dB. Black vinyl. 5-yr parts-and-labor warranty. 19¾ x 15 x 15 in; 46 lb $599

Reference Series
The following use a bass-reflex design, have Teflon-insulated, twisted-pair, silver-plated OFC wiring, and carry a 5-year warranty. Unless otherwise noted, they have a 1-inch ferrofluid-cooled/damped magnesium-alloy dome tweeter.

AE5 4-Way Speaker
Two 5¼-in tri-layer alloy woofers with 1¼-in edge-wound ribbon voice coils, two 5¼-in tri-layer alloy midbass drivers with 1¼-in edge-wound ribbon voice coils, and two 5¼-in tri-layer alloy midranges with 1¼-in edge-wound ribbon voice coils. Triampable terminals. Includes metal plinth with hardened steel spikes. Power handling 250 W; FR 35 Hz-25 kHz ±2 dB; sens 91 dB; imp 6 ohms. Santos rosewood. 8⅝ x 43⅜ x 13⅜ in; 95 lb $14,995/pr

AE2 Series II 2-Way Bookshelf Speaker
Two 5¼-in tri-layer alloy woofers with 1¼-in edge-wound ribbon voice coils. Biampable terminals. Power handling 250 W; crossover point 4 kHz; FR 50 Hz-17 kHz ±2.5 dB; sens 90 dB; imp 6 ohms. Piano black. 9¼ x 15⅛ x 13 in; 38 lb $3,995/pr
As above, Santos rosewood $3,695/pr
Black, antique, or Georgian ash $2,795/pr
ST-AE2. Stands for above $1,495/pr

AE1 Series II 2-Way Bookshelf Speaker
5¼-in tri-layer alloy woofer with one 1¼-in edge-wound ribbon voice coil. Biampable terminals. Power handling 200 W; crossover point 3 kHz; FR 65 Hz-22 kHz ±3 dB; sens 89 dB; imp 8 ohms. Piano black. 7⅛ x 11⅝ x 10 in; 18 lb $2,595/pr
As above, Santos rosewood $2,395/pr
As above with black, antique, or Georgian ash finish $1,995/pr
ST-AE1. Stands for above $995/pr

Signature Series
The following use a bass-reflex design and a 1-inch ferrofluid-cooled/damped soft-fabric-dome tweeter. They have Teflon-insulated silver wiring, biampable terminals, and a Santos rosewood or piano black finish, and carry a 5-year warranty.

AE2 Signature 2-Way Bookshelf Speaker
Two 5¼-in tri-layer alloy woofers with one 1¼-in edge-wound ribbon voice coil. Power handling 250 W; crossover point 4 kHz; FR 50 Hz-17 kHz ±1.5 dB; sens 90 dB; imp 6 ohms. 9¼ x 15⅛ x 13 in; 51 lb $6,995/pr
ST-AE2. Stands for above $1,495/pr

AE1 Signature 2-Way Bookshelf Speaker
5¼-in tri-layer alloy woofer with 1¼-in edge-wound ribbon voice coil. Power handling 200 W; crossover point 3 kHz; FR 65 Hz-22 kHz ±2 dB; sens 88 dB; imp 8 ohms. 7⅛ x 11⅝ x 10 in; 27 lb $4,395/pr
ST-AE1. Stands for above $995/pr

100 Series
The following use a bass-reflex design, have a 1-inch ferrofluid-cooled/damped soft-fabric-dome tweeter and magnetic shielding, and carry a 5-year warranty.

AE120 3-Way Speaker
Two 5¼-in polymer-pulp woofers with 1¼-in voice coils and one 5¼-in polymer-pulp midrange with 1¼-in voice coil. ¾-in low-resonance MDF enclosure with full internal bracing and mass loading; continuous crystal-copper conductors. Gold-plated triampable 2-way binding posts. Includes plinth base with hardened steel spikes. Power handling 150 W; crossover points 375 Hz and 3.2 kHz; FR 38 Hz-18 kHz; sens 89 dB; imp 8 ohms. Black ash, beech, or rosewood finish. 7¼ x 36¼ x 10⅝ in; 55 lb $899/pr

AE109 3-Way Speaker
5¼-in polymer-pulp woofer with 1¼-in voice coil and 5¼-in polymer-pulp midrange with 1¼-in voice coil. ¾-in low-resonance MDF enclosure with full internal bracing and mass loading. Gold-plated biampable 2-way binding posts. Includes plinth base and hardened steel spikes. Power handling 150 W; crossover points 300 Hz and 3 kHz; FR 55 Hz-18 kHz; sens 90 dB; imp 6 ohms. Black ash, beech, or rosewood finish. 7¼ x 33 x 9⅞ in; 44 lb $599/pr

AE100 2-Way Bookshelf Speaker
5¼-in polymer-pulp woofer with 1¼-in voice coil. Braced ¾-in low-resonance MDF enclosure; gold-plated 2-way binding posts. Biampable terminals. Power handling 100 W; crossover point 3 kHz; FR 75 Hz-18 kHz ±3 dB; sens 88 dB; imp 6 ohms. Black ash or rosewood finish. 7¼ x 11⅝ x 9⅞ in; 13 lb $349/pr

AE107C 2-Way Center-Channel Speaker
Two 5¼-in polymer-pulp woofers with 1¼-in voice coils. ¾-in low-resonance MDF enclosure. Gold-plated biampable 2-way binding posts. Power handling 150 W; crossover point 3.3 kHz; FR 65 Hz-20 kHz; sens 90 dB; imp 6 ohms. Black-vinyl finish. 17¾ x 6¼ x 8½ in; 18 lb $249

ACOUSTIC INTERFACE

The following are also available in discounted packages of five or six speakers for home theater. All center-channel models are magnetically shielded. 12-year warranty for all speakers.

Sound Prism 3-Way Powered Speaker
24 x 52-in compression woofer driven by 18-in driver, 24-in-diameter constant-directivity compression-horn midrange, and 6½-in constant directivity compression horn tweeter; woofer amp rated at 800 W rms, midrange amp at 300 W rms, tweeter amp at 100 W rms. 24-dB/oct active crossover; 1¾-in thick compressed-wood cabinet; 2-in-thick concrete waveguide walls reinforced with glass and steel; fuse protection; tweeter-overload protection; over-voltage, over-current, thermal, clipping, and DC protection. Crossover points 550 Hz and 5 kHz; FR 10 Hz-20 kHz ±2 dB; sens 105 dB; imp 8 ohms. Walnut/bronze or oak/bronze finish. 27 x 80 x 36 in; 500 lb $25,000
Center-channel version with 15-in woofer .$15,900
Satellite version with 15-in woofer $15,500

Sound Portal 3-Way Speaker
24 x 52-in compression woofer driven by 18-in driver, 24-in-diameter constant-directivity compression-horn midrange, and 6½-in diameter constant-directivity compression-horn tweeter. 24-dB/oct crossover; 1¾-in thick compressed-wood enclosure with internal bracing; 2-in-thick concrete waveguide walls reinforced with glass and steel; fuse protection; tweeter-overload protection. Midrange- and tweeter-level controls. Power handling 1,000 W rms; crossover points 550 Hz and 5 kHz; FR 15 Hz-20 kHz ±2.5 dB; sens 105 dB; imp 8 ohms. Walnut/bronze or oak finish. 27 x 80 x 36 in; 500 lb $15,000
Center-channel version with 12-in woofer . .$9,900
Satellite version with 12-in woofer $9,500

Studio Reference 3-Way Speaker
12-in woofer, 4 x 15-in compression-horn midrange, and 2 x 5½-in compression-horn tweeter. 24-dB/oct crossover; ¾-in-thick compressed-wood cabinet with 16 separate internal braces; fuse protection; tweeter-overload protection. Midrange- and tweeter-level controls. Power handling

750 W rms; crossover points 880 Hz and 5 kHz; FR 22 Hz-20 kHz ±2.5 dB; sens 98 dB; imp 8 ohms. Walnut or oak finish. 16 x 60 x 14 in; 105 lb $2,990
In-wall version $2,290
Center-channel version with 8-in woofer ... $1,990
Satellite version with 8-in woofer $1,940

Tremor Powered Subwoofer
Bass-reflex design with two 12-in woofers; 250-W amp. ¾-in enclosure. RCA inputs and outputs. Level control. Crossover point 100 Hz; FR 29-200 Hz ±2.5 dB; sens 95 dB; imp 8 ohms. Walnut or oak. 62 x 26 x 16 in; 150 lb $2,990
As above, passive subwoofer. 12-gauge wire and banana connectors $1,790

Professional III 4-Way Speaker
12-in woofer, 3-in dome midrange, 1½-in dome midrange, and ¾-in dome tweeter. ¾-in thick compressed-wood enclosure with 14 separate internal braces; fuse protection. Woofer-, midrange-, and tweeter-level controls. Power handling 600 W; crossover points 600 Hz, 2 kHz, and 6 kHz; FR 25 Hz-20 kHz ±2.5 dB; sens 95 dB; imp 8 ohms. Walnut or oak. 16 x 48 x 14 in; 85 lb $1,990
In-wall version with 10-in woofer $1,490
Center-channel version with 8-in woofer ... $1,240
Satellite version with 8-in woofer $1,190

Professional IIs 3-Way Speaker
12-in woofer, 2-in soft-dome midrange, and 1-in soft-dome tweeter. 6-dB/oct Butterworth crossover; ¾-in-thick compressed-wood enclosure with 12 separate internal braces; fuse protection. Midrange- and tweeter-level controls. Power handling 550 W rms; crossover points 800 Hz and 5 kHz; FR 29 Hz-20 kHz ±2.5 dB; sens 95 dB; imp 8 ohms. Walnut or oak finish. 16 x 36 x 14 in; 85 lb $1,290
In-wall version with 10-in woofer $890
Center-channel version with 8-in woofer $790
Satellite version with 8-in woofer $740

Transcendent 2-Way Speaker
12-in woofer and 1¼-in soft-dome tweeter. 6-dB/oct Butterworth crossover; ¾-in compressed-wood enclosure with internal bracing; fuse protection. Tweeter-level control. Power handling 500 W rms; crossover point 1.9 kHz; FR 38 Hz-20 kHz ±2.5 dB; sens 94 dB; imp 8 ohms. Walnut or oak finish. 16 x 32 x 12 in; 51 lb $590
In-wall version with 8-in woofer $490
Center-channel version with 6½-in woofer ... $390
Satellite version with 6½-in woofer $340

Intimate 2-Way Speaker
10-in woofer and 1-in soft-dome tweeter. 6-dB/oct Butterworth crossover; ¾-in-thick compressed-wood enclosure; fuse protection. Tweeter-level control. Power handling 400 W rms; crossover point 5 kHz; FR 49 Hz-20 kHz ±2.5 dB; sens 93 dB; imp 8 ohms. Walnut or oak finish. 12 x 24 x 10 in; 32 lb $390
In-wall version with 8-in woofer $340
Center-channel version with 6½-in woofer ... $290
Satellite version with 6½-in woofer $240

Angstrom 2-Way Bookshelf Speaker
6½-in woofer and 1-in soft-dome tweeter. 6-dB/oct Butterworth crossover; ½-in-thick compressed-wood enclosure. Power handling 150 W rms; crossover point 5 kHz; FR 78 Hz-20 kHz ±2.5 dB; sens 90 dB; imp 8 ohms. Walnut or oak finish. 7½ x 12⅞ x 6½ in; 10 lb $240
Center-channel version. Black $240
In-wall version $220

Shadow 2-Way Speaker
Cylindrical design with 8-in woofer and 1-in dome tweeter. ⅜-in-thick resin enclosure with ¾-in-thick compressed-wood base; 6 dB/oct Butterworth crossover. Power handling 200 W rms; crossover point 5 kHz; FR 69 Hz-20 kHz ±2.5 dB; sens 91 dB; imp 8 ohms. Black, brown, or white. 24½-in height x 8¾-in diameter; 21 lb $240
Center-channel version $260

ACOUSTIC PROFILES

PSL-88.7A/V 2-Way Speaker
Two 8-in woofers and 1-in ferrofluid-cooled dome tweeter. Power handling 220 W max; FR 25 Hz-20 kHz; sens 91 dB; imp 8 ohms. 10 x 40 x 15 in $700/pr

DC-10.sub Powered Subwoofer
10-in carbon-fiber injection-molded woofer; 100-W amp. Discrete MOSFET output; variable crossover and high-pass outputs. Auto on/off; soft turn-on. FR 28-150 Hz. 12¼ x 18 x 16 in $429

PSL-821A/V 2-Way Speaker
8-in woofer and ¾-in ferrofluid-cooled dome tweeter. Hybrid MDF construction; mirror-imaging; natural fiber insulation. Power handling 100 W max; FR 30 Hz-20 kHz; sens 91 dB; imp 4 ohms. 10 x 32 x 8 in $360/pr

DC-8.sub Powered Subwoofer
8-in polypropylene-cone woofer with rubber surround; 100-W amp. Discrete MOSFET output; variable crossover and high-pass outputs. Auto on/off; soft turn-on. FR 35-150 Hz. 10½ x 15 x 16 in $359

PSL-C200 3-Way Center-Channel Speaker
Two 4½-in polypropylene woofers, two 4½-in polypropylene midranges, and one 1-in ferrofluid-cooled linen-dome tweeter. Acoustically isolated midrange. Power handling 140 W; FR 40 Hz-20 kHz; sens 88 dB; imp 8 ohms. 6 x 22 x 8½ in $330

PSL-C20 3-Way Center-Channel Speaker
Dual-ported bass-reflex design with two 4½-in polypropylene woofers, one 3-in polypropylene midrange, and two ¾-in ferrofluid-cooled hard polymer-dome tweeters. Power handling 100 W; FR 50 Hz-20 kHz; sens 89 dB; imp 8 ohms. 6 x 19 x 8½ in ... $250

MSL-2A/V 2-Way Bookshelf Speaker
Point-source design with 6½-in polypropylene woofer and ¾-in ferrofluid-cooled dome tweeter. Optimally contoured sculptured baffle; elongated port diffuser. Power handling 110 W max; FR 40 Hz-20 kHz; sens 88 dB; imp 8 ohms. 8½ x 14 x 7¼ in $230/pr

PSL-C3 2-Way Center-Channel Speaker
Dual 4½-in polypropylene woofers and one ¾-in tweeter. Spring connectors and resonance-free MDF cabinet. Power handling 100 W; FR 55 Hz-20 kHz; sens 88 dB; imp 8 ohms. 6 x 17 x 7½ in .$199

PSL-0.5ctr 2-Way Center-Channel Speaker
Dual 4-in polypropylene woofers and one ¾-in tweeter. Molded enclosure. Power handling 80 W max; FR 80 Hz-18 kHz; sens 88 dB; imp 8 ohms. 14½ x 5 x 5 in $180

PSL-0.5 2-Way Satellite Speaker
4-in woofer and ¾-in ferrofluid-cooled dome tweeter. Molded enclosure. Includes speaker wire and mounting brackets. Power handling 60 W max; FR 55 Hz-20 kHz; imp 8 ohms. 4½ x 7¼ x 4½ in $120/pr

ACOUSTIC RESEARCH

The Leading Edge Subwoofer/Satellite System
6-speaker package with one 12-in subwoofer and five Edge satellites, all powered by an integrated electronics package located in the subwoofer; Dolby Digital decoder. 2 digital inputs; 2 analog inputs. On-screen TV display; infrared remote control. Power handling 450 W. 22 x 30 x 22 in; 65 lb $1,999

The Cutting Edge Subwoofer/Satellite System
6-speaker package with one 10-in subwoofer and five Edge satellites, all powered by an integrated electronics package in subwoofer section; Dolby Pro Logic decoder. 3 analog inputs. On-screen TV display; infrared remote control. Power handling 200 W. 19⅛ x 25 x 17¾ in; 47 lb $999

216PS 2-Way Speaker
Bass-reflex design with 6½ woofer and 1-in horn-loaded tweeter. FR 70 Hz-20 kHz ±3 dB, sens 88 dB; 4 ohms. Black woodgrain vinyl finish. 8½ x 14½ x 9, 16 lb $299/pr

The Edge 2-Way Speaker
Bass-reflex design with 4¼-in woofer and ¾-in dome tweeter. Magnetic shielding. Power handling 20 W min, 150 W max; FR 80 Hz-20 kHz ±3 dB; sens 91 dB; imp 8 ohms. Black knit grille; black or white finish. 10 x 7 x 7 in; 14 lb $279/pr

The Edge Sequel 2-Way Speaker
Bass-reflex design with 4½-in woofer and 1-in tweeter. Magnetic shielding. Includes wall-mount bracket. Power handling 20 W min, 150 W max; crossover point 4.2 kHz; FR 120 Hz-20 kHz ±3 dB; sens 89 dB; imp 8 ohms. Black or white. 5-yr limited warranty. 5½ x 7⅜ x 4⅜ in; 8 lb $149/pr

High Output Series
Model 312 HO 3-Way Speaker
Bass-reflex design with one 12-in woofer, two 5¼-in cone midranges, and one 1-in dome tweeter. Magnetic shielding. Power handling 250 W; FR 30 Hz-20 kHz ±2 dB; sens 97 dB; imp 8 ohms. Black knit grille; black, maple, or cherry finish. 44 x 11 x 19 in; 148 lb $1,199/pr
Model 310 HO. As above with one 10-in woofer. Power handling 25 W min, 200 W max; FR 35 Hz-20 kHz ±2 dB; sens 95 dB. 37 x 10 x 17 in; 114 lb $899/pr
Model 308 HO. As above with one 8-in woofer and one 5¼-in cone midrange. Power handling 25 W min, 200 W max; FR 50 Hz-20 kHz ±2 dB; sens 92 dB. 19 x 8 x 12 in; 60 lb $649/pr

S 12 HO Powered Subwoofer
Bass-reflex design with 12-in woofer; amp rated at 140 W rms. FR 20-200 Hz; imp 8 ohms. Black knit grille; black finish. 16 x 16 x 16 in; 50 lb $549
S 10 HO. As above with one 10-in woofer; amp rated at 70 W rms. FR 35-200 Hz. 14 x 15 x 15 in; 42 lb $439
S 8 HO. As above with one 8-in woofer; amp rated at 50 W rms. FR 40-200 Hz. 13 x 13 x 13 in; 28 lb .$329

Model 208 HO 2-Way Speaker
Bass-reflex design with 8-in woofer and 1-in dome tweeter. Magnetic shielding. Power handling 200 W; crossover point 2.5 kHz; FR 50 Hz-20 kHz ±3 dB; sens 92 dB; imp 8 ohms. Black knit grille; black, maple, or cherry finish. 18 x 10 x 13 in; 52 lb $449/pr
Model 206 HO. As above with one 6½-in woofer and one ¾-in dome tweeter. Power handling 25 W min, 125 W max; crossover point 3 kHz; FR 55 Hz-20 kHz ±3 dB; sens 91 dB. 14 x 8 x 9 in; 30 lb $249/pr

CS 25 HO 2-Way Surround Speaker
Bass-reflex design with two 5¼-in cone midranges and one 1-in dome tweeter. Magnetic shielding. Power handling 25 W min, 200 W max; FR 80 Hz-20 kHz ±2 dB; sens 94 dB; imp 8 ohms. Black knit grille; black finish. 17 lb $279

A/D/S/

MS4/u Powered Subwoofer
12-in copolymer woofer; amp rated at 250 W rms. Computer-optimized bandpass cabinet; active servo amp control; independently selectable low- and high-pass filters with 24 dB/oct slopes. Magnetic shielding; auto turn on; continuously variable phase control for low-pass filter. FR 17-100 Hz ±3 dB. Black finish $1,350
MS3/u. As above, 10-in copolymer woofer; amp rated at 150 W rms. FR 20-100 Hz ±3 dB ... $1,200

MS2/u Powered Subwoofer
8-in copolymer woofer; amp rated 85 W rms. ¾-in thick computer-optimized bandpass cabinet; low-pass filter at 100 Hz; line-level high-pass filter at 100 Hz with selectable 6 or 18 dB/oct slope; speaker-level high-pass filter at 130 Hz with 6 dB/oct slope. Polarity-reverse switch. FR 30-100 Hz ±3 dB. Black finish $750
MS1/u. As above, 7-in copolymer woofer; amp rated at 65 W rms. FR 38-100 Hz ±3 dB $650

L400e 2-Way Speaker
6½-in copolymer woofer and 1-in copolymer-dome tweeter. Wood cabinet; magnetic shielding. Wall-mount bracket optional. Power handling 100 W; FR 60 Hz-20 kHz ±3 dB; sens 90 dB; imp 4 ohms. Black or white finish $599/pr

C400i/s 2-Way In-Wall Speaker
6½-in woofer and 1-in dome tweeter. Multi-element crossover network. Adjustable tweeter level. Power handling 100 W; FR 42 Hz-20 kHz ±3 dB; sens 91 dB; imp 4 ohms. Paintable $499/pr

L310/aw 2-Way Speaker
5¼-in copolymer woofer and 1-in copolymer-dome tweeter. All-weather, antiresonant cast-aluminum cabinet. Includes wall-mounting bracket. Power handling 75 W; FR 68 Hz-20 kHz ±3 dB; sens 90 dB; imp 4 ohms. Black or white finish $499/pr

L310/v 2-Way Speaker
Acoustic-suspension design with 5¼-in copolymer woofer and 1-in copolymer dome tweeter. Antiresonant cast-aluminum chassis; magnetic shielding. Includes mounting brackets. Power handling 75 W; FR 68 Hz-20 kHz; sens 90 dB; imp 4 ohms. Black or white $499/pr

AVF144 2-Way Center-Channel Speaker
Two 4-in copolymer woofers and one 1-in copolymer-dome tweeter. Magnetic shielding. Includes bracket for wall mounting and stand for TV top. Power handling 100 W; FR 70 Hz-23 kHz ±3 dB; sens 89 dB; imp 8 ohms $449

C300i/s 2-Way In-Wall Speaker
5¼-in woofer and 1-in dome tweeter. Multi-element crossover network. Adjustable tweeter level. Power handling 100 W; FR 50 Hz-20 kHz ±3 dB; sens 90 dB; imp 4 ohms. Paintable $399/pr

L210 2-Way Speaker
4-in copolymer woofer and 1-in copolymer-dome tweeter. All-weather, cast-aluminum cabinet. Magnetic shielding. Includes mounting bracket. Power handling 50 W; FR 85 Hz-20 kHz ±3 dB; sens 88 dB; imp 4 ohms. Black or white finish $399/pr

R80i/c 2-Way Ceiling Speaker
Infinite-baffle design with 3-in copolymer woofer and 1-in copolymer soft-dome tweeter. Tweeter-level control. Includes templates and mounting software. Power handling 90 W; FR 50 Hz-20 kHz; imp 4 ohms. Paintable white finish. Round frame. Mounting diameter: 10 in. Mounting depth 2½ in $200

R60i/c 2-Way Ceiling Speaker
Infinite-baffle design with 6½-in copolymer woofer and 1-in soft-dome tweeter. Tweeter-level control. Includes templates and mounting software. Power handling 90 W; crossover point 3.5 kHz; FR 60 Hz-20 kHz; sens 91 dB; imp 4 ohms. Paintable white finish. Round frame. Mounting diameter: 8½ in. Mounting depth 2⅞ in $180

R50i/c 2-Way Ceiling Speaker
5¼-in woofer and 1-in dome tweeter. Multi-element crossover network. Power handling 75 W; FR 70 Hz-20 kHz ±3 dB; sens 90 dB; imp 4 ohms. Round frame $149

Music/Video Series
MV80 3-Way Speaker
Three 7¾-in woofers, two 1½-in midranges, and one 1-in tweeter. MTM array for controlled dispersion. Power handling 200 W; FR 36 Hz-20 kHz ±3 dB; sens 89 dB; imp 4 ohms $2,800/pr

MV60 2-Way Speaker
Two 7¾-in woofers and two 1-in dome tweeters. 2½-way crossover design; nonlobing tweeter array for controlled dispersion. Power handling 160 W; FR 42 Hz-20 kHz ±3 dB; sens 89 dB; imp 4 ohms$2,200/pr

MV40 2-Way Speaker
Three 6½-in woofers and one 1-in dome tweeter. 2½-way crossover design; drivers in symmetrical array for controlled dispersion. Power handling 150 W; FR 45 Hz-20 kHz ±3 dB; sens 89 dB; imp 4 ohms $1,700/pr

MV30 2-Way Speaker
Two 6½-in woofers and one 1-in dome tweeter. Drivers in symmetrical array for controlled dispersion. Power handling 125 W; FR 49 Hz-20 kHz ±3 dB; sens 88 dB; imp 4 ohms $1,200/pr

MV15/s 3-Way Dipolar Speaker
Dipolar acoustic-suspension design with one 5¼-in woofer, two 4-in midranges, and two copolymer tweeters. Biampable terminals. Dipole/bipole selector switch. Includes all mounting software. Power handling 100 W; FR 68 Hz-20 kHz; sens 90 dB; imp 4 ohms. Black or white $1,100/pr

MV20/u 3-Way Speaker
Two 7¾-in woofers, two 1½-in dome midranges, and one 1-in dome tweeter. MTM array for controlled dispersion. Power handling 175 W; FR 52 Hz-20 kHz ±3 dB; sens 89 dB; imp 4 ohms ..$900

MV10/c 2-Way Center-Channel Speaker
Two 6½-in woofers and two 1-in dome tweeters. Nonlobing tweeter array for controlled dispersion; base allows speaker to be tilted up or down. Power handling 100 W; FR 52 Hz-20 kHz ±3 dB; sens 88 dB; imp 4 ohms $600

ADP

The following use an internally braced cabinet made of veneered ¾-inch particleboard. All systems have a series crossover network and carry a 30-day in-home trial period and 3-year limited warranty.

Bi-Polar Series II 4-Way Speaker
Omnidirectional design with four 8-in woofers, four 4½-in polypropylene midranges, one 1¼-in dome tweeter, and one ⅜-in dome supertweeter. Pedestal cabinet; ferrofluid tweeter and midrange cooling; 12-dB/oct crossover. Biampable terminals. Power handling 500 W; crossover points 1, 5, and 12 kHz; FR 40 Hz-28 kHz ±2 dB; sens 94 dB; imp 6 ohms. Oak or walnut-veneer sides, pedestal, and base; black formica-slate top. 55½ x 30 x 6 in; 180 lb $16,000/pr

Bi-Polar Series II Powered Subwoofer
Tuned-port design with four 10-in woofers in 2 separate chambers; amp rated at 200 W x 2. Crossover point 90 Hz; FR 24-90 Hz; sens 94 dB; imp 6 ohms. Pedestal cabinet in oak or walnut veneer with black formica-slate top. 55½ x 20 x 28 in; 300 lb $10,500/pr

Campanile II Plus 4-Way Speaker
Tuned-port design with 15-in woofer, two 10-in long-throw woofers, one 8-in ferrofluid-cooled midrange, and one 1-in ferrofluid-cooled silk-dome tweeter. Midrange- and tweeter-level controls. Power handling 200 W; crossover points 70 Hz, 300 Hz, and 2.5 kHz; FR 22 Hz-22 kHz; sens 93 dB; imp 4 ohms. Oak- or walnut-veneer top with solid trim; black pedestal; veneer base; cabinet wrapped in black or brown cloth. 59 x 14 x 20 in; 165 lb $6,000/pr

Campanile II 3-Way Speaker
Tuned-port design with two 10-in long-throw woofers, one 8-in ferrofluid-cooled midrange in open-back isolation chamber, and one 1-in ferrofluid-cooled silk-dome tweeter. Midrange- and tweeter-level control. Power handling 200 W; crossover points 300 Hz and 2.5 kHz; FR 32 Hz-22 kHz ±3 dB; sens 93 dB; imp 4 ohms. Oak or walnut-veneered top with solid trim; black pedestal; veneer base; cabinet wrapped in black or brown cloth. 49 x 13 x 20 in; 130 lb $4,500/pr
Campanile I. As above, two 8-in woofers, one 4½-in polypropylene-treated-cone midrange, and one silk-dome tweeter. Power handling 100 W; crossover points 900 Hz and 6 kHz; FR 38 Hz-22 kHz ±3 dB; sens 92 dB; imp 4 ohms. Oak or walnut-veneer top with solid-oak or walnut trim; black base. 36 x 13 x 13 in; 95 lb $3,000/pr

Ziggurat 3-Way Speaker
Tuned-port design with 12-in woofer, 4½-in ferrofluid-cooled polypropylene-treated cone midrange in isolation chamber, and 1-in ferrofluid-cooled silk-dome tweeter. Time-aligned sloping front-baffle; pedestal cabinet. Midrange- and tweeter-level control. Power handling 150 W; crossover points 900 Hz and 6 kHz; FR 32 Hz-22 kHz ±2 dB; sens 91 dB; imp 6 ohms. Oak- or walnut-veneer cabinet; black-slate top. 41 x 18 x 16 in; 150 lb $4,000/pr

Monolith 12P Powered Subwoofer
Tuned-port design with 12-in woofer; 200-W amp. Designed for use with Campanile I or II. Amp-level control. Crossover point 150 Hz; FR 28-150 Hz ±3 dB; sens 91 dB; imp 6 ohms. Oak- or walnut-veneer top; black base; cabinet wrapped in black or brown grille cloth. 22 x 20 x 20 in; 130 lb $2,500/pr

Cornerstone 2-Way Bookshelf Speaker
Two 4½-in polypropylene-treated woofers and one 1-in silk-dome tweeter. Power handling 40 W; crossover point 6 kHz; FR 120 Hz-22 kHz ±3 dB; sens 94 dB; imp 4 ohms. Oak- or walnut-veneer top and base; cabinet wrapped in black or brown grille cloth. 18 x 7¼ x 12 in; 38 lb $600/pr
Cornerstone Plus 2-Way Powered Bookshelf Speaker. As above, 60-W amp. Magnetic shielding. 48 lb $1,000/pr

Model Q Round Subwoofer
Cylinder cabinet with 12-in woofer. Power handling 150 W; crossover point 150 Hz; FR 28-150 Hz +3 dB; sens 92 dB; imp 8 ohms. Cabinet wrapped in brown or black cloth; simulated slate or marble top. 24-in diameter x 18-in height; 45 lb $595

ADVENT

QRTZ2 Subwoofer/Satellite System
3-piece system featuring powered subwoofer with 8-in long-throw woofer in bandpass enclosure; 2 magnetically-shielded satellites, each with 4-in long-throw polypropylene midrange and ½-in ferrofluid silver-dome tweeter. Line-level inputs and outputs. Remote control. Power handling 85 W rms; crossover point variable from 45-150 Hz; FR 42 Hz-21 kHz system; sens 88 dB. Oak accents. 8⅛ x 5⅛ x 4 in $499

Jade 2-Way Speaker
Bass-reflex design with 8-in long-throw polypropylene woofer and 1-in dome tweeter. Power handling 125 W rms; FR 43 Hz-21 kHz ±3 dB; imp 8 ohms. Solid-oak accent with textured black vinyl over dense fiberboard. 9½ x 35 x 9¼ in; 28 lb ...$449/pr

AV570 2-Way Powered Computer Speaker
5-in long-throw woofer and 1-in fluid-filled polycarbonate tweeter; amp rated at 35 W. Magnetic shielding. Separate volume, bass, and treble controls; auto on/off. Black or gray. 10⅞ x 7¾ x 8¾ in; 11 lb $399/pr
AV571. As above, single speaker $199

Amber 2-Way Bookshelf Speaker
Bass-reflex design with 8-in long-throw polypropylene woofer and ½-in ferrofluid-filled ring-dome tweeter. Power handling 250 W; FR 50 Hz-21 kHz; sens 89 dB; imp 8 ohms. Solid-oak accent with textured black vinyl over dense fiberboard. 11 x 16¼ x 10¼ in; 20 lb $349/pr

AW870 Powered Wireless Speaker System
2 speakers, each with 4-in woofer and 1-in dome tweeter; amp rated at 15 W rms; 900-MHz receiver and transmitter with 150-ft range. 12 dB/oct crossover. Front-panel control. Includes AC adapter. Black $300
AWB1. Mounting brackets for above $30

125 DECIBEL LIVE CONCERTS

IN THE HANDY TAKE-HOME SIZE

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AWB1. Mounting brackets for above $30

Ruby 2-Way Bookshelf Speaker
Bass-reflex design with 6½-in polypropylene-cone woofer and tweeter. Power handling 75 W rms; FR 53 Hz-21 kHz ±3 dB; sens 89.5 dB; imp 8 ohms. Textured black vinyl over dense fiberboard. 9 x 15 x 8¼ in; 12 lb $249/pr

Audio Cinema 2-Way Center-Channel Speaker
Two 5¼-in woofers and one tweeter. Power handling 125 W rms; FR 60 Hz-20 kHz ±3 dB; imp 8 ohms. Black ash vinyl over dense fiberboard. 18 x 6 x 6½ in; 10 lb $199

Pearl 2-Way Bookshelf Speaker
Bass-reflex design with 5¼-in long-throw polypropylene woofer and ½-in ferrofluid-filled silver-dome tweeter. Includes wall-mount bracket. Power handling 60 W rms; FR 95 Hz-21 kHz; sens 88 dB; imp 8 ohms. Weather-resistant white finish. 6⅜ x 9⅝ x 6⅝ in; 10 lb $179/pr

500 Series
The following use a bass-reflex design.

Sub550AV Powered Subwoofer
15-in down-firing driver; amp rated at 250 W rms. Line- and speaker-level inputs and outputs. Auto on/off; continuously adjustable phase between 0° and 180°. Crossover point adjustable from 40-100 Hz; FR 27-150 Hz ±3 dB. 5-yr speaker, 1-yr amp warranty. 18 x 16 x 22 in $599

AV575 2-Way Satellite Speaker
5-in woofer and 1-in titanium-dome tweeter. Magnetic shielding. Built-in wall-mount hardware. Power handling 20 W min, 150 W max; crossover point 3.5 kHz; FR 80 Hz-20 kHz ±3 dB; sens 91 dB; imp 8 ohms. Black. 5-yr warranty. 6 x 10¾ x 6⅞ in; 8 lb $349/pr

AV520cc 2-Way Center-Channel Speaker
Dual 4¼-in woofers and one 1-in titanium-dome tweeter. Magnetic shielding; protection circuit. Built-in wall-mount hardware. Power handling 20 W min, 150 W max; crossover point 4.2 kHz; FR 80 Hz-20 kHz ±3 dB; sens 90 dB; imp 8 ohms. Black. 5-yr warranty. 13¼ x 6 x 6½ in $259

400 Series
The following use a bass-reflex design.

Sub 450VA Powered Subwoofer
Slot-loaded 10-in woofer; 100-W amp. Auto on/off; continuously adjustable phase between 0° and 180°. Crossover point continuously variable from 50-100 Hz; FR 32-150 Hz ±3 dB. Black. 5-yr speaker, 1-yr amp warranty. 14 x 12 x 16 in $399

AV400 SAT 2-Way Satellite Speaker
4-in woofer and 1-in polycarbonate-cone tweeter. Protection circuit; magnetic shielding; current limiter. Power handling 20 W min, 100 W max; crossover point 4.2 kHz; FR 120 Hz-20 kHz ±2 dBA; sens 89 dB; imp 8 ohms. Black or white. 5-yr warranty. 5 x 8⅞ x 5⅜ in $199/pr

AV 420cc 2-Way Center-Channel Speaker
Dual 3½-in woofers and one 1-in polycarbonate-dome tweeter. Magnetic shielding; current limiter; protection circuit. Mounting bracket optional. Crossover point 4.2 kHz; FR 100 Hz-20 kHz ±3 dB; imp 8 ohms. Black. 5-yr warranty. 12 x 5½ x 5½ in $159

AERIAL ACOUSTICS

Model 10T 3-Way Speaker
10¾-in bilaminate-cone long-coil woofer with large magnet assembly and cast frame, 5⅜-in twin-cone Kevlar midrange with large magnet and cast frame, and 1-in dual-chamber titanium tweeter with multiple vents and large surround. 24-dB/oct Linkwitz-Riley crossovers; extensively braced 1- and 2-in MDF bass enclosure with solid radiused edges; inert 30-lb cast Novalith stone head. Biampable terminals. Power handling 100 W min, 500 W max; FR 28 Hz-22 kHz ±2 dB; sens 86 dB; imp 4 ohms. Black ash finish; rose walnut, natural cherry, natural figured maple, and rosewood finishes available. 41½ x 13¾ x 19 in; 110 lb $6,500/pr
Stand for above. 40 lb $600/pr

Model 8 3-Way Speaker
As Model 10T, 7-in bilaminate-cone midrange with large magnet and cast frame. Extensively braced 1- and 2-in one-piece enclosure with solid radiused edges. Imp 6 ohms. 45 x 9 x 20 in; 120 lb $5,000/pr
Stand for above. 25 lb $400/pr

Model 7B 3-Way Speaker
Two 7-in bilaminate-core woofers, one 5-in bilaminate-core midrange, and one 1-in titanium-dome tweeter. Same crossover construction as Model 10T; extensively braced 1- and 2-in enclosure with solid radiused edges. Power handling 100 W min, 300 W max; FR 35 Hz-22 kHz ±2 dB; sens 86 dB; imp 6 ohms. 43 x 8½ x 15 in; 95 lb $3,800/pr
Stands for above. 25 lb $400/pr

SW3 Subwoofer
12½-in cast-frame woofer. Designed for Model 10T and Model 8. RCA and XLR inputs; speaker-level inputs. Remote control with mute, volume, phase, network bypass, and damping controls. Power handling 400 W. 24 x 14 x 22 in; 120 lb $3,600
Digital display; infrared sensor $400
Stand for above. 45 lb $400

Model 7A 2-Way Speaker
9-in bilaminate-cone long-coil woofer with large magnet assembly and cast frame and 1-in dual-chamber titanium tweeter with multiple vents and large surround. Crossover; extensively braced 1- and 2-in MDF enclosure with solid radiused edges. Biampable terminals. Power handling 100 W min, 300 W max; FR 35 Hz-22 kHz ±2 dB; sens 86 dB; imp 4 ohms. Black or walnut finish. 41 x 10 x 13½ in; 80 lb $2,800/pr
Stand for above. 25 lb $300/pr

Model SR3 3-Way Surround Speaker
One 7-in bilaminate-cone long-coil woofer with large magnet assembly and cast frame, two 4½-in polypropylene-cone midranges with large magnets, and two ¾-in aluminum tweeters. Same crossover construction as Model 7A. Remote controlled bipole and dipole operation; switches for rear-facing driver level and midrange/treble level; wall mountable. Power handling 100 W min, 300 W max; FR 55 Hz-22 kHz ±3 dB; sens 85 dB; imp 6 ohms. Scratch-resistant black finish; 5-sided grille in black or white. 16¼ x 17¼ x 6⅝ in; 31 lb $2,400/pr
Stand for above. 22 lb $400/pr
Remote control for above $200

Model 5 2-Way Speaker
7-in polypropylene-cone woofer with large magnet assembly and cast frame and 1-in dual-chamber titanium tweeter with multiple vents and large surround. Same crossover construction as Model 7; extensively braced 1- and 2-in MDF enclosure with solid radiused edges. Power handling 100 W min, 200 W max; FR 60 Hz-22 kHz ±2 dB; sens 85 dB; imp 4 ohms. Same finishes as Model 10T. 13 x 8⅛ x 10¼ in; 24 lb $1,800/pr
Stand for above. 40 lb $500/pr

Model CC3 3-Way Center-Channel Speaker
Two 7-in polypropylene-cone woofers with double-magnet assemblies and cast frames, 5-in bilaminate-cone midrange with double-magnet assembly and cast frame, and 1-in dual-chamber titanium tweeter with flared-vent and double magnet. Same crossover construction as Model 7; magnetic shielding; braced ¾- and 1-in MDF enclosure. Switches for midrange level and mid/treble overall level. Power handling 100 W min, 300 W max; FR 55 Hz-22 kHz ±2 dB; sens 86 dB; imp 6 ohms. Scratch-resistant black finish. 9½ x 24 x 11 in; 41 lb $1,200
Adjustable stand for above. 45 lb $300

AES

Basis 120 Powered Subwoofer
12-in woofer; servo amp rated at 125 W rms. Soft-clipping circuit. Line- and speaker-level inputs; speaker-level outputs. Auto-on; front-panel output-level control. Crossover point continuously variable from 60-180 Hz; FR 28-180 Hz $595

AES-400W In-Wall Subwoofer
6 x 9-in polypropylene woofer with dual voice coils. Moisture-resistant design. Power handling 75 W rms; FR 28-90 Hz; sens 90 dB; imp 8 ohms ...$259

Axia Two 2-Way Speaker
Coaxial design with two 5¼-in mineral-filled polypropylene woofers with SBR rubber surrounds and ¾-in liquid-cooled polycarbonate-dome tweeters. FR 58 Hz-21 kHz; sens 90 dB; imp 8 ohm ...$189

AES-225S 2-Way In-Wall Speaker
6½-in mineral-filled polypropylene woofer and 1-in patented liquid-cooled soft-dome tweeter. Swivel tweeter; neodymium magnet; rubber surround; protection circuit; moisture-resistant design. Wall or ceiling installation. Power handling 10 W min, 100 W max; FR 40 Hz-22.5 kHz; sens 91 dB; imp 8 ohms $180

AKS-65F 2-Way In-Wall/Ceiling Speaker
Infinite-baffle design with 6½-in polypropylene woofer and ¾-in liquid-cooled polycarbonate tweeter. Moisture-resistant design. Wall-mount bracket optional. Power handling 10 W min, 100 W max; FR 21.5 Hz-40 kHz; sens 91 dB; imp 8 ohms. White finish. Round frame. Mounting diameter 9 in. Mounting depth 3¼ in $140

AES-100S Mk II 2-Way In-Wall Speaker
6½-in mineral-filled polypropylene woofer with SBR rubber surround and ¾-in liquid-cooled tweeter. Protection circuit; moisture-resistant design. Wall or ceiling installation. Power handling 10 W min, 80 W max; FR 52 Hz-21 kHz; imp 8 ohms $125
AES-50S Mk II. As above, 5¼-in mineral-filled polycarbonate woofer with SBR rubber surround. Power handling 10 W min, 65 W max; FR 68 Hz-21 kHz $100

AES-45R 2-Way Ceiling Speaker
Coaxial design with 5¼-in mineral-filled polypropylene woofer with SBR rubber surround and ¾-in liquid-cooled tweeter. Moisture-resistant design. Grille recessed from mounting surface. Power handling 10 W min, 65 W max; FR 68 Hz-21 kHz; sens 90 dB; imp 8 ohms. Round frame. Mounting diameter: 6½ in $100
AES-35F 2-Way In-Wall/Ceiling Speaker. As above, grille mounts flush with surface. Sens 91 dB $90

AES-40R Ceiling Speaker
Dual-cone design with 5¼-in mineral-filled polypropylene woofer with dual voice coils. Moisture-resistant design. Grille recessed from mounting surface. Power handling 10 W min, 60 W max; FR 68 Hz-18 kHz; sens 88 dB; imp 8 ohms. Round frame. Mounting diameter: 6½ in $90
AES-30F In-Wall/Ceiling Speaker. As above, grille mounts flush with surface $80

AIWA

TS-W50 Powered Subwoofer
Bass-reflex design with 8-in driver; 60-W amp. 2 input terminals. Selectable crossover; phase switch; auto power on/off; bass-level control. FR 30-180 Hz; imp 8 ohms. 10¼ x 14 x 16¼ in; 20 lb $200

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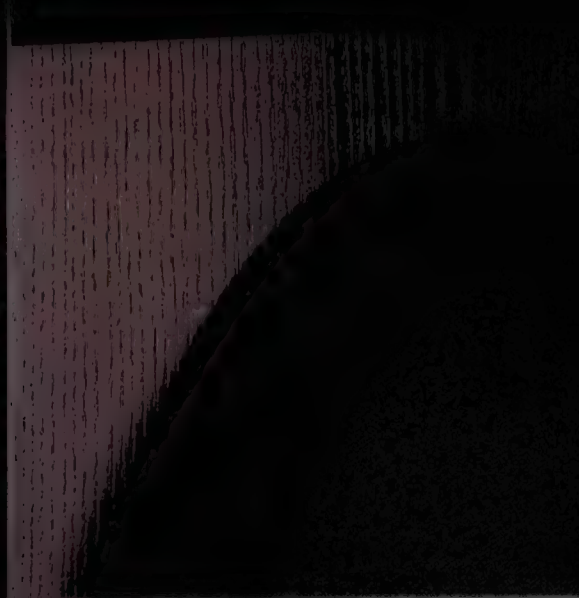

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ALLISON ACOUSTICS

NL-5400P Powered Subwoofer
Acoustic-suspension design with 12-in driver; 300-W amp. Line- and speaker-level inputs. Volume control. High-pass crossover fixed at 60 Hz; low-pass crossover variable from 40-180 Hz. FR 28-180 Hz. Black lacquer wood finish. 19 x 19 x 19 in; 70 lb $879
NL-5400. As above without amp or separate high/low-pass crossovers. Power handling 250 W; crossover point 80 Hz; FR 28-90 Hz; sens 89 dB. 65 lb $460

AL-130S 3-Way Speaker
Acoustic-suspension design with two 8-in woofers, one 3-in hand-assembled ferrofluid-cooled convex-diaphragm midrange, and one 1-in silicone-cooled convex-diaphragm tweeter. Push-pull woofer configuration; magnetic shielding. Power handling 200 W; crossover points 450 Hz and 4 kHz; sens 90 dB; imp 6 ohms. Black vinyl with painted charcoal front baffles $600
AL-125. As above, two 6-in woofers. 12½ x 37½ x 14½ in; 40 lb $600

AL-115S 2-Way Speaker
Acoustic-suspension design with 8-in woofer and 1-in hand-assembled ferrofluid-cooled convex-diaphragm tweeter. Woofer hand-treated with proprietary energy-absorbent compound; magnetic shielding. Power handling 150 W; sens 90 dB; imp 8 ohms. Black vinyl with painted charcoal front baffles. 11⅛ x 20 x 10⅛ in; 22 lb $500/pr
AL-115. As above, unshielded; sens 90 dB; imp 6 ohms. 11⅛ x 20 x 10⅛ in; 22 lb $460/pr

AL-105S 2-Way Speaker
Acoustic-suspension design with 6-in woofer and 1-in ferrofluid-cooled dome tweeter. Woofer hand-treated with proprietary energy-absorbent compound; magnetic shielding. Power handling 150 W; crossover point 2500 Hz; sens 90 dB; imp 6 ohms. Black vinyl with painted charcoal front baffles. 14¾ x 9½ x 8½ in; 13 lb $330/pr
AL-105. As above, unshielded; sens 90 dB; imp 6 ohms. 14¾ x 9½ x 8½ in; 13 lb $230/pr

NL-1440 2-Way Center-Channel Speaker
Acoustic-suspension design with 8-in woofer and 1-in convex tweeter. Magnetic shielding. Power handling 150 W; crossover point 2 kHz; sens 90 dB; imp 6 ohms. Black lacquer wood finish. 11 x 10 x 18 in; 19 lb $330
NL-654. As above, 6-in woofer. Crossover point 2.5 kHz. 9 x 18 x 13 in; 11 lb $280

MS-200 2-Way Satellite Speaker
4-in midrange and ½-in Mylar-dome tweeter. Magnetic shielding. Power handling 50 W rms; crossover point 140 Hz; sens 90 dB; imp 8 ohms. Black lacquer wood finish. 5¾ x 10 x 5¼ in; 6 lb $260/pr

MS-W4 Subwoofer
8-in driver. Power handling 75 W rms; crossover point 200 Hz; sens 86 dB; imp 8 ohms. Black lacquer wood finish. 11 x 11 x 11 in; 16 lb $210

MS-202 2-Way Center-Channel Speaker
Two 3-in midranges and one ½-in Mylar-dome tweeter. Magnetic shielding. Power handling 50 W rms; sens 86 dB; imp 8 ohms. Black lacquer wood finish. 19 x 5 x 11 in; 10 lb $180

ALON

Phalanx 4-Way Speaker
One 10-in sealed woofer, five 5-in dipole midranges, and one 1-in dipole aluminum-dome tweeter. External crossover. Power handling 200 W; FR 32 Hz-25 kHz ±3 dB; sens 87 dB. High-gloss black-ash veneer finish; piano-black polyester finish available. 12½ x 58 x 17½ in; crossover: 14 x 9 x 36 in $22,000/pr

Poseidon Subwoofer
Eight 12-in woofers with cobalt magnets. Sealed double-isobaric dynamic-compression operation. Power handling 200 W; FR 20-100 Hz; sens 90 dB. High-gloss black ash wood; piano-black polyester finish available. 40 x 16 x 30 in $15,000/pr

Circe 3-Way Speaker
10-in sealed Alnico woofer, 5-in Alnico dipole midrange, and 1-in Alnico dipole dome tweeter. External crossover. Power handling 200 W; FR 22 Hz-25 kHz; sens 87 dB; imp 8 ohm. Cherry-wood finish with black cloth grille. 12 x 52 x 15 in ...$12,000/pr

Adriana 2-Way Bookshelf Speaker
Vented design with two 5¼-in woofers and one 1-in dipole aluminum-dome tweeter. Cobalt driver magnets. Power handling 150 W; FR 35 Hz-25 kHz; sens 87 dB. Polyester piano finish over solid cherry wood. 15 x 8 x 14 in $10,000/pr

Model V Mk III 3-Way Speaker
10-in sealed woofer, 5-in dipole midrange, and 1-in dipole aluminum-dome tweeter. Power handling 200 W; FR 34 Hz-25 kHz ±3 dB; sens 87 dB. Gloss-black finish with black-cloth grille. 12 x 52 x 15 in; 95 lb $5,495/pr

Lotus SE 3-Way Speaker
8-in infinite-baffle woofer, 5¼-in Alnico open-baffle midrange, and ¾-in tweeter. Midrange driver and tweeter mounted on separate dipole assembly above bass enclosure. Triampable terminals. Includes spike feet. Power handling 150 W; crossover points 500 Hz and 3.5 kHz; FR 35 Hz-25 kHz ±3 dB; sens 90 dB; imp 8 ohms. Gloss black. 5-yr warranty. 9 x 42 x 13 in; 60 lb $3,500/pr

Model IV 3-Way Speaker
12-in sealed woofer, 5-in dipole midrange, and 1-in dual-chamber aluminum-dome tweeter. Power handling 200 W; FR 29 Hz-25 kHz ±3 dB; sens 87 dB. Natural-oak, black-ash, or walnut-veneer finish; rosewood available. 14 x 46 x 18 in; 105 lb $3,500/pr

Centris Home Theater System
5-speaker system featuring 3 infinite-baffle design front speakers, each with two 5¼-in woofers and one 1-in dome tweeter; 2 dual-ported wide-dispersion-design surround speakers, each with one 5¼-in woofer and one ¾-in aluminum-dome tweeter. Magnetic shielding. Power handling 200 W; crossover point 3.5 kHz; FR front 60 Hz-25 kHz ±3 dB, surround 55 Hz-22 kHz ±3 dB; sens 90 dB front, 91 dB surround; imp 8 ohms. Black ash. 5-yr warranty. Front: 7⅝ x 16 x 9½ in. Surround: 13½ x 16 x 9½ in $3,000

Model II MKII 3-Way Speaker
10-in sealed woofer, 5-in dipole midrange, and 1-in dual-chamber aluminum-dome tweeter. Power handling 150 W; FR 39 Hz-25 kHz ±3 dB; sens 87 dB. Gloss-black finish with black cloth grille. 11 x 46 x 13 in; 70 lb $2,495/pr

Model I MKII 3-Way Speaker
8-in sealed woofer, 4½-in dipole midrange, and ¾-in aluminum-dome tweeter. Power handling 150 W; FR 49 Hz-25 kHz ±3 dB; sens 87 dB. Gloss-black finish with black cloth grille. 9 x 42 x 13 in; 60 lb .$1,795/pr

Centris Powered Subwoofer
Dual flared-port design with 10-in long-throw woofer; amp rated at 200 W rms. Phase, music, video, and auto on/off switches. Crossover point 200 kHz; FR 25-200 Hz; sens 110 dB. Black-ash laminate with black cloth grille. 16 x 16 x 18 in $1,400

Petite 2-Way Speaker
Rear-vented bass-reflex design with cast-frame 5¼-in woofer and 1-in aluminum-dome tweeter. Power handling 100 W; FR 55 Hz-25 kHz; sens 87 dB. Black ash or walnut wood; Santos rosewood available. 15 x 6 x 8 in $995/pr

SW-1 Subwoofer
Acoustic-suspension design with two 12-in woofers. Power handling 200 W; FR 24-150 Hz ±3 dB; sens 87 dB. Black-ash veneer finish. 25 x 15¾ x 25 in; 100 lb $990

PW1 Subwoofer
Bass-reflex design with two 6½-in down-firing woofers. Built-in crossover. Power handling 100 W; FR 35-55 Hz; sens 87 dB. Black ash laminate. 29 x 8 x 15 in $500

ALTEC LANSING

The following are designed for computers.

ADA310 Powered Subwoofer/Satellite System
Designed for 5.1-channel surround playback. 3-speaker system with subwoofer with 6-in driver; two satellites, each with two 3-in drivers. Bass module includes Dolby Digital decoder. Gray vinyl finish. 3⅞ x 7½ x 3⅞, 2½ lb sat; 12⅛ x 8 x 10¼, 13 lb sub $299

ADA305 Powered Subwoofer/Satellite System
3-speaker system with subwoofer with 6½-in driver; two satellites, each with 3-in driver; 35-W amp. Mute switch; separate center-channel control. Crossover point 150 Hz; FR 32 Hz-48 kHz; sens 88 dB ..$199

ACS48 Powered Subwoofer/Satellite System
3-speaker system with wood-enclosed subwoofer with 6-in long-throw woofer; two magnetically-shielded satellites, each with 3-in midrange and ¾-in tweeter. 40-W subwoofer amp; 20-W satellite amp. Electronic volume controls; on/off function. Crossover points 150 Hz and 4 kHz; FR 32 Hz-20 kHz system $150

ACS45.1 Powered Subwoofer/Satellite System
3-speaker system featuring wood-enclosed subwoofer with 6½-in long-throw driver; two magnetically-shielded satellites, each with 3-in full-range driver; 44-W amp. LED power indicator; electronic volume controls; master volume control. FR 35 Hz-20 kHz; sens 65 dB $99

ACS44 Powered Subwoofer/Satellite System
3-piece system featuring subwoofer with 4-in driver; two magnetically-shielded satellites, each with 3-in driver; 31-W amp. LED on/off indicator; volume control. FR 35 Hz-19 kHz; sens 65 dB ...$79

ACS43 Powered Computer Speaker System
2 speakers, each with 3-in driver; amp rated at 10 W. FR 100 Hz-18 kHz. 5 lb $50

AMBIANCE ACOUSTICS

California Cube 2-Way Speaker
Four 4½-in full-range drivers with treated paper cones and rubber surrounds. 4th-order vented MDF enclosure; 6N copper or silver wiring; 18 dB/oct-slope infrasonic filter. Gold-plated 5-way binding posts. External EQ with bypass switch; tape-monitor loop. Power handling 120 W; FR 38 Hz-16.5 kHz; sens 90 dB; imp 8 ohms. Optional finishes available at extra cost. 5-yr limited warranty. 13⅜-in cube; 30 lb $1,395/pr
As above with Holco 0.1% resistors $1,595/pr
As above, silver internal wiring, upgraded ICs, and Holco 1%-tolerance resistors $2,395/pr

AMC

B1-20 Powered Subwoofer
Bass-reflex design with 8-in carbon-filled long-throw woofer; 200-W amp. Negative output impedance curve applied to woofer for increased linearity. Stereo line-level inputs; stereo high-pass line-level outputs. Sensitivity control; auto on/off; standby indicator; active indicator. Crossover point variable from 40-200 Hz; FR 30-175 Hz ±2 dB. Black-ash veneer. 12 x 15 x 12 in; 37 lb $800

WM-100 3-Way In-Wall Speaker
8-in polypropylene woofer with 1½-in voice coil and 1-in soft-dome tweeter. Power handling 100 W max; crossover point 2.5 kHz; FR 40 Hz-20 kHz;

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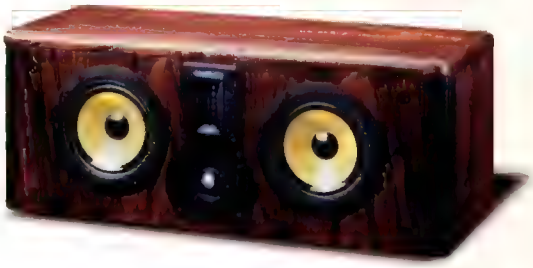

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sens 89 dB; imp 8 ohms. Paintable white matte. Rectangular frame. Mounting area: 10¼ x 14 in. Mounting depth 4 in $300/pr
WMBK100. Mounting brackets for above ...$60/pr

WM75 3-Way In-Wall Speaker
6½-in polypropylene woofer with 1-in voice coil and 1-in soft-dome tweeter. Power handling 80 W max; crossover point 2.8 kHz; FR 45 Hz-20 kHz; sens 90 dB; imp 8 ohms. Paintable white matte. Rectangular frame. Mounting area: 8½ x 12 in. Mounting depth 3½ in $250/pr
WMBK75. Mounting brackets for above ...$50/pr

WM50 3-Way In-Wall Speaker
5¼-in polypropylene-cone woofer with 1-in voice coil and 1-in soft-dome tweeter. Power handling 60 W max; crossover point 2.8 kHz; FR 50 Hz-20 kHz; sens 90 dB; imp 8 ohms. Paintable white matte. Rectangular frame. Mounting area: 7½ x 11 in. Mounting depth 2¾ in $175/pr
WMBK50. Mounting brackets for above ...$40/pr

AMPHION

Krypton$_2$A 3-Way Speaker/Powered Subwoofer
Dipolar bass-reflex design with built-in powered subwoofer with 10-in cone and 150-W amp; speaker section with two 8-in midranges and one 1-in aluminum-cone with 8-in constant-directivity waveguide. XLR and RCA inputs for subwoofer; gold-plated speaker terminals. Bass-level control. Crossover points 130 Hz and 1.3 kHz; FR 45 Hz-18 kHz ±1 dB; sens 87 dB; imp 6 ohms. Lacquered birch veneer. 13¾ x 51¼ x 15¾ in; 80 lb $2,995/pr
Krypton. As above without power amp. Biampable. Power handling 250 W. 75 lb $2,495/pr

Argon 2-Way Speaker
Bass-reflex design with 6½-in aluminum-cone woofer and 3¾-in aluminum-dome tweeter with 6-in constant-directivity waveguide. MDF enclosure. Gold-plated speaker terminals. Magnetic shielding, biampable connectors, and shelf-type treble adjustment optional. Power handling 175 W; crossover point 1.8 kHz; FR 70 Hz-19 kHz ±1 dB; sens 83 dB; imp 8 ohms. Lacquered birch veneer. 8 x 15 x 11¼ in; 21 lb $895/pr

APOGEE ACOUSTICS

Studio Grand 3-Way Hybrid Ribbon Speaker
10-in woofer, trapezoidal ribbon woofer, and midrange/tweeter ribbon. External active crossover with balanced connectors. Power handling 250 W; crossover points 60 and 500 Hz; FR 20 Hz-20 kHz; imp 8 ohms. Black-sand, light-oak, or mahogany finish. 72 x 28½ x 25 in; 420 lb $13,000/pr

Studio Ribbon Array 2-Way Ribbon Speaker
Trapezoidal woofer ribbon and midrange/tweeter ribbon. Power handling 250 W; crossover point 500 Hz; FR 30 Hz-30 kHz. Black-sand, light-oak, or mahogany finish. 55 x 28½ x 3 in; 220 lb ...$8,000/pr

Cepheus 8 2-Way Hybrid Ribbon Speaker
Bass-reflex design with dual 8-in long-throw cone woofers and 40-in dipole midrange/tweeter ribbon. Power handling 250 W; crossover points 500 Hz; FR 26 Hz-20 kHz; imp 6 ohms. Black or taupe finish. 240 lb $4,700/pr
Cepheus 6. As above, dual 6½-in woofers and one 26-in midrange/tweeter ribbon. Power handling 200 W; crossover point 980 Hz; FR 32 Hz-20 kHz. Black. 52½ x 14½ x 14¼ in; 160 lb $3,000/pr

Stage 2-Way Ribbon Speaker
Trapezoidal woofer ribbon and midrange/tweeter ribbon. Power handling 200 W; crossover point 800 Hz; FR 30 Hz-20 kHz; imp 3 ohms. Black-sand, light-oak, or mahogany facia cover. 37 x 25 x 2 in; 120 lb $3,500/pr

Stage Subwoofer
Two 8-in drivers. Designed for use with Stage 2-Way Ribbon Speaker. External active crossover with balanced connectors. FR 20-80 Hz; imp 3 ohms. Black-sand finish. 11 x 26½ x 18¾ in; 110 lb $3,500/pr
Mini Grand. 3-piece system featuring Stage subwoofer and two Stage 2-way speakers ...$6,500/pr

Auriga-F 2-Way In-Wall Speaker
6½-in cone woofer and 26-in dipole midrange/tweeter ribbon. Power handling 200 W; crossover point 1.2 kHz; FR 40 Hz-20 kHz; imp 6 ohms. Paintable grille. Rectangular frame. Mounting area: 12½ x 48 in $1,800/pr
As above, on-wall version $2,000/pr

Drago Powered Subwoofer
Four 6½-in drivers; 200-W amp. High- and low-pass filter. XLR and RCA connectors. Damping control and gain controls. FR 28-80 Hz. 21 x 23 x 9½ in $1,800

Perseus-6 2-Way Hybrid Ribbon Speaker
Two 6½-in long-throw woofers and one 4-in monopole midrange/tweeter ribbon. Magnetic shielding. Power handling 200 W; FR 45 Hz-25 kHz; imp 8 ohms. Textured black ash finish. 9 x 24 x 11½ in; 44 lb $1,000/pr
As above with dark cherry veneer, white ash veneer, or black sand finish $1,100/pr
Cassiopeia-6. As above, single woofer. Textured black ash. 9½ x 16 x 11½ in; 26 lb $1,000

Capella-6 2-Way In-Wall Speaker
6½-in cone woofer and 4-in shielded monopole midrange/tweeter. Power handling 200 W; FR 45 Hz-25 kHz. 11 x 16 x 3 in; 10 lb $500

ARANT

The following have walnut enclosures and carry a 5-year warranty.

A-200 3-Way Speaker
Bass-reflex design with 10-in woofer, 4½-in dome midrange, and 1-in dome tweeter. Crossover points 800 Hz and 3.5 kHz; FR 34 Hz-22 kHz ±3 dB; sens 92 dB; imp 6 ohms $770/pr

A-140 2-Way Speaker
6½-in woofer, 1-in dome tweeter, and passive radiator. FR 32 Hz-22 kHz ±3 dB; sens 93 dB; imp 8 ohms. 11 x 19 x 11 in; 25 lb $550/pr

A-80 2-Way Speaker
Bass-reflex design with 8-in woofer and 1-in dome tweeter. Crossover point 2 kHz; FR 38 Hz-22 kHz ±3 dB; sens 91 dB; imp 6 ohms. 11 x 19 x 10 in; 19 lb $520/pr

A-60 2-Way Speaker
Bass-reflex design with 6½-in woofer and 1-in dome tweeter. Crossover point 2.5 kHz; FR 49 Hz-22 kHz ±3 dB; sens 89 dB; imp 8 ohms. 9½ x 17 x 8 in $330/pr

A-50 2-Way Speaker
Bass-reflex design with 5¼-in woofer and ¾-in dome tweeter. FR 60 Hz-22 kHz –3 dB; sens 86 dB; imp 6 ohms. 6½ x 9½ x 5½ in $220/pr

ARES SOUND

The following use a bass-reflex design and 1-in ceramic tweeter and carry a 5-year warranty.

Ares III 3-Way Speaker
Two 8-in Nomex/Kevlar Hexacone woofers, one 5-in Nomex/Kevlar Hexacone midrange. Power handling 250 W; crossover points 400 Hz and 3 kHz; FR 30 Hz-25 kHz ±3 dB; sens 90 dB; imp 4 ohms. Mahogany with black knit grille. 11 x 43 x 16 in; 120 lb $7,900/pr

Ares II 2-Way Speaker
7-in Nomex/Kevlar Hexacone woofer. Power handling 250 W; crossover point 2.7 kHz; FR 30 Hz-25 kHz ±3 dB; sens 90 dB; imp 8 ohms. Aneigre finish with black knit grille. 11 x 39 x 15 in; 78 lb $3,900/pr

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DC & Washington Suburbs- Myer-Emco.
DE - Sound Studio: Wilmington.
FL- Absolute Sound: Winter Park• **Audio Advice of NW Florida:** Pensacola• **Audio Advisors:** West Palm Beach• **Audio Center:** Deerfield Beach• **The Audiohouse:** Vero Beach• **Cooper for Stereo:** Clearwater• **Hoyt Stereo:** Jacksonville• **Palm Audio:** Destin• **Sound Components:** Coral Gables• **Sound Ideas:** Gainesville• **Sound Insights:** Ft. Pierce• **Sound Waves:** Lakeland• **Stereotypes:** Daytona Beach.
GA- Laser Disc Enterprises: Atlanta• **Merit TV:** Columbus• **Stereo Connections:** Valdosta• **Stereo Festival:** Atlanta.
HI- Honolulu Home Theater: Honolulu.
IA- Ultimate Electronics: Cedar Rapids, Des Moines• **Archer Audio Video:** Ft. Dodge• **Audio Video Logic:** Des Moines• **Audio Visions:** Sioux City• **Hawkeye Audio:** Iowa City, Cedar Falls• **Renier's:** Dubuque.
ID- Ultimate Electronics: Boise• **Wise Buy:** Idaho Falls.
IL- Absolute Audio: Rockford• **United Audio Centers:** Chicago & Suburbs• **Good Vibes:** Champaign• **Jon's Home Ctr.:** Quincy• **Sound Forum:** Crystal Lake.
IN- Classic Stereo: Ft. Wayne, Mishawaka• **Kings Great Buys:** Evansville• **Ovation Audio:** Clarksville, Indianapolis, Lafayette.
KS- Accent Sound: Overland Park• **Advance Audio:** Wichita• **Audio Junction:** Junction City, Manhattan.
KY- Ovation Audio: Lexington, Louisville.
LA- Alterman Audio: Metairie• **Mike's Audio:** Baton Rouge• **Wright's Sound Gallery:** Shreveport.
MA- Goodwins Audio: Boston, Shrewsbury• **Nantucket Sound:** Hyannis• **Northampton Audio:** Northampton• **Pittsfield Radio:** Pittsfield.
MD- Gramophone: Baltimore, Ellicott City• **Myer-Emco:** Gaithersburg, Beltsville, Rockville• **Sight & Sounds:** Easton• **Soundscape:** Baltimore.
MI- Contemporary Audio: Okemos• **Pecar's:** (Detroit)Troy• **Classical Jazz:** Holland• **Sound North:** Iron Mtn.• **Stereo Center FRAV:** Flint• **Court St. Listening Room:** Saginaw.
MN- Audio King: Minneapolis & Suburbs, Rochester, St. Cloud• **Audio Designs:** Winona.
MO- Independence A/V: Independence• **Sound Central:** St Louis.
MS- Ideal Acoustics: Starkville• **McLelland TV:** Hattiesburg• **Players A/V:** Ridgeland.
MT- Rocky Mt. Hi Fi: Great Falls.
NC- Audio Video Systems: Charlotte• **Audio Visions:** Wilmington• **Now AudioVideo:** Durham, Greensboro, Raleigh, Winston Salem• **Tri City Electronics:** Conover.
NE- Custom Electronics: Omaha, Lincoln.
NH- Cookin': Nashua, Manchester, Newington, Salem, S. Nashua.
NJ- Camera and TV Stop: Medford, Egg Harbor• **Monmouth Stereo:** Shrewsbury• **Woodbridge Stereo:** West Caldwell, Woodbridge.
NM- Ultimate Elect.: Albuquerque• **Sound Ideas:** Albuquerque.
NV- Ultimate Elect.: Las Vegas.
NY- Audio Breakthroughs: Manhasset• **Audio Den:** Lake Grove• **Clark Music:** Albany, Syracuse• **Stereo Exchange:** Manhattan• **Hart Elect.:** Vestal• **Listening Room:** Scarsdale• **Rowe Camera:** Rochester• **Speaker Shop:** Amherst.
OH- Absolute Theater: Powell• **Audio Craft:** Akron, Cleveland, Mayfield Hts., Westlake• **Audio Etc.:** Dayton• **Classic Stereo:** Lima• **Ohio Valley Audio:** Cincinnati• **Paragon Sound:** Toledo• **Stereo Visions:** Columbus• **Threshold Audio:** Heath• **Unique Home System:** Cincinnati.
OK- Audio Dimensions: Oklahoma City• **Photo World:** Stillwater, Shawnee• **Ultimate Electronics:** Tulsa.
OR- Bradford's HiFi: Eugene• **Kelly's Home Ctr.:** Salem• **Magnolia HiFi:** (Portland) Beaverton, Clackamas• **Stereo Plant:** Bend.
PA- Audio Junction: Pittsburgh• **Audio Lab:** Fairless Hills• **Gary's Elect.:** State College• **GNT Stereo:** Lancaster• **Hart Elect.:** Blakely• **Hi Fi House:** Abington, Broomall, Camp Hill, Harrisburg• **Listening Post:** Pittsburgh• **Palmer Audio:** Allentown• **Stereo Shoppe:** Selinsgrove, Williamsport• **Stereoland:** Natrona Heights• **The Stereoshop:** Greensburg.
RI- Stereo Discount Ctr.: Providence.
SC- Custom Theater & Audio: Myrtle Beach• **Upstairs Audio:** Columbia.
SD- Audio King: Sioux Falls• **Sound Pro:** Rapid City.
TN- College HiFi: Chattanooga• **Hi Fi Buys:** Nashville• **Now Audio Video:** Knoxville• **Modern Music:** Memphis• **Sound Room:** Johnson City.
TX- Home Entertainment: Dallas, Houston, Plano• **Audio Tech:** Temple• **Audio Video:** College Station• **Bunkley's Sound Systems:** Abilene• **Bjorn's:** San Antonio• **High Fidelity:** Austin• **Krystal Clear:** Dallas• **Marvin Electronics:** Ft. Worth• **Sound Quest:** El Paso• **Sound Systems:** Amarillo.
UT- AudioWorks: Salt Lake City• **Stokes Bros.:** Logan• **Ultimate Elect.:** Layton, Murray, Orem, Salt Lake City.
VA- Myer-Emco: Falls Church, Tyson's Corner, Fairfax• **Audio Connection:** Virginia Beach• **Audiotronics:** Roanoke• **Home Media Store:** Richmond.
WA- Bunch-Finnegan TV: Kennewick• **Magnolia HiFi:** Seattle & Suburbs, Tacoma, Silverdale, Spokane• **Pacific Sight & Sound:** Wenatchee.
WI- Flanner's A/V: Milwaukee• **Hi-Fi Heaven:** Appleton, Green Bay• **Sound World:** Wausau.
Puerto Rico- Precision Audio: San Juan.
Canada- A & B Sound: Calgary, Edmonton, Kelowna, Vancouver & Suburbs, Victoria• **Advance Electronics:** Winnipeg• **Bay Bloor Radio:** Toronto• **Canadian Sound:** Brampton, Ont.• **Digital Dynamics:** Clearbrook• **Harrington Audio:** Peterborough, Ont.• **Kebecson:** Montreal• **Lipton's:** Newmarket, Ont.• **Sound Decisions:** Duncan, B.C.• **Sound Gallery:** Newfoundland• **Sound Room:** Vancouver• **StereoLand:** Windsor• **Treble Clef:** Ottawa.
Mexico- Contacl Grupo Volumen: Mexico City.

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See our dealer list on facing page

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Ares I 2-Way Speaker
5-in Nomex/Kevlar Hexacone woofer. Power handling 150 W; crossover point 3 kHz; FR 45 Hz-25 kHz ±3 dB; sens 90 dB; imp 8 ohms. Lacewood with black knit grille. 8 x 14 x 11 in; 23 lb $2,900/pr

ASB

SR-IV MKV 3-Way Speaker
Transmission-line design with two 8-in woofers, one 4-in midrange, and one 1-in dome tweeter. Power handling 150 W; crossover point selectable at 450 Hz or 4 kHz; FR 22 Hz-30 kHz ±3 dB; sens 89 dB; imp 6 or 8 ohms. Walnut-veneer finish. 11 x 60 x 18 in; 85 lb $7,495/pr

SR-III MKV 2-Way Speaker
Transmission-line design with two 7-in woofers and one 1-in soft-dome tweeter. Power handling 150 W; crossover point 2 kHz; FR 35 Hz-25 kHz ±3 dB; sens 90 dB; imp 6 or 8 ohms. Walnut-veneer finish. 10 x 44 x 14 in; 70 lb $5,495/pr

SR-II MKV 2-Way Speaker
Transmission-line design with 7-in woofer and 1-in titanium-dome tweeter. Power handling 150 W; crossover point 2 kHz; FR 36 Hz-20 kHz ±3 dB; sens 90 dB; imp 6 or 8 ohms. Walnut-veneer finish. 10 x 38 x 12 in; 65 lb $3,895/pr

SR-I MKV 2-Way Speaker
Transmission-line design with 6½-in woofer and 1-in soft-dome tweeter. Power handling 80 W; crossover point 2.5 kHz; FR 37 Hz-20 kHz ±3 dB; sens 90 dB; imp 6 or 8 ohms. Walnut-veneer finish. 10 x 36 x 12 in; 55 lb $2,195/pr

EEW-1 2-Way Speaker
Bass-reflex design with 5¼-in woofer and 1-in soft-dome tweeter. Power handling 60 W; crossover point 2 kHz; FR 50 Hz-20 kHz ±3 dB; sens 90 dB; imp 6 or 8 ohms. Oak-veneer finish. 8½ x 14½ x 6¼ in; 25 lb $1,195/pr

ATLANTIC TECHNOLOGY

The following have silk-dome tweeters with neodymium magnets and ferrofluid cooling, and speaker- and line-level inputs and outputs.

System 450 THX Home THX Speaker System
6-speaker system with 325-W powered subwoofer with 15-in driver; two 3-way D'Appolito-array magnetically-shielded front speakers and one center speaker, each with two 6½-in woofers, two 3½-in midranges, and one 1-in tweeter; two 3-sided dipolar surround speakers, each with two 5¼-in woofers and two 1-in tweeters. All speakers have sealed acoustic-suspension enclosures; coated composite graphite cones for the woofers and midranges. 80 Hz, 24 dB/oct high-pass output. Compensation control, THX free-air switch, and tilting base for center-channel speaker; preset THX low-pass mode, phase switch, front-panel variable-level control with THX preset, and auto standby for subwoofer. Matching pedestal speaker stands for front and surround speakers optional. Power handling 100 W rms; crossover points 350 Hz and 4.5 kHz front/center, 3.5 kHz surround; FR 80 Hz-20 kHz ±3 dB; sens 91 dB front/center, 87 dB surround; imp 8 ohms. High-gloss black. Subwoofer: 16¾ x 22⅝ x 19⅜ in; 86 lb. Center: 25¾ x 10 x 10½ in; 25 lb. Front: 7½ x 23⅜ x 11⅜ in; 27 lb. Surround: 7⅞ x 18¾ x 7¼ in; 12 lb $5,096
System 370 THX. As above, 275-W powered subwoofer; without high-gloss cabinets. Black-ash vinyl finish $3,996

System 270 Home Theater System
6-speaker system featuring powered subwoofer with 12-in driver and 225-W amp; two 2-way D'Appolito-array magnetically-shielded front speakers and one center speaker, each with two 5¼-in woofers and one 1-in tweeter; two dipolar surround speakers, each with two 4½-in woofers and two ¾-in tweeters. Acoustic-suspension enclosures; injection-molded graphite woofers; 80 Hz, 18 dB/oct high-pass filter. Tilting base for center-channel speaker with controls for high-frequency level, midrange presence, and boundary compensation; phase switch; front-panel subwoofer-level control; adjustable 18 dB/oct low-pass filter; auto-standby for subwoofer. Metal speakers stands for front and surround speakers optional. Power handling 10-150 W; crossover points 2.5 kHz front/center, 3 kHz surround; FR 80 Hz-20 kHz; sens 90 dB; imp 8 ohms. Black ash vinyl. Subwoofer: 15¾ x 21½ x 18½ in; 62 lb. Center: 17¾ x 7¾ x 8 in; 15 lb. Front: 7 x 14½ x 8 in; 13 lb. Surround: 11⅞ x 9 x 7⅜ in; 11 lb $2,396

AUDIO ADVANCEMENTS

Maxeen 2-Way Speaker
4th-order vented design with 8-in Aergel-cone woofer and 1-in textile-dome tweeter. Cabinet cross bracing; minimum-phase crossover. Power handling 150 W max; crossover point 1.7 kHz; FR 35 Hz-20 kHz; sens 92 dB; imp 8 ohms. Various finishes available. 39½ x 11 x 15 in $2,750/pr

Maxeena 2-Way Bookshelf Speaker
Vented delay-line design with 6½-in woofer and 1-in silk-dome tweeter. Minimum-phase crossover. Power handling 150 W max; crossover point 1.7 kHz; FR 35 Hz-20 kHz; sens 91 dB; imp 8 ohms. Various finishes available. 17 x 8 x 10½ in $1,850/pr
Floor stands $450/pr

AUDIO CONCEPTS/ACI

Sapphire III 2-Way Bookshelf Speaker
7-in hybrid-aperiodic Kevlar woofer and 1-in hand-damped textile-dome tweeter. Power handling 200 W; sens 90 dB. Lacquered oak, black oak, lacquered cherry, or unfinished cherry. 10 x 16 x 10 in $1,899/pr

Titan Powered Subwoofer
12-in woofer; amp rated at 250 W. Crossover point variable from 50-180 Hz; FR 20-150 Hz ±3 dB. Lacquered oak, black oak, lacquered cherry, or unfinished cherry. 14 x 27 x 16 in $1,599

Quake Powered Subwoofer
Dual 8-in woofers; amp rated at 100 W rms. Crossover point variable from 50-180 Hz; FR 34-180 Hz ±3 dB. Black finish. 20 x 14 x 14 in $899

MC1 2-Way Center-Channel Speaker
Dual 5¼-in long-throw woofers and one 1-in ferrofluid-cooled tweeter. Magnetic shielding. Power handling 150 W; FR 80 Hz-20 kHz ±3 dB; sens 89 dB; imp 8 ohms. Black finish with black metal grille. 6½ x 17 x 6½ in $349

MC2 2-Way Speaker
4-in doped-cone long-throw woofer with rubber surround and 1-in ferrofluid-cooled dome tweeter. Weather-resistant enclosure; magnetic shielding. Power handling 100 W; FR 80 Hz-20 kHz ±3 dB; sens 89 dB; imp 8 ohms. White finish with white metal grille. 8¼ x 5½ x 5 in $349/pr

B-Flat 2-Way In-Wall Speaker
6½-in woofer and 1-in tweeter. Power handling 80 W; FR 60 Hz-20 kHz ±3 dB; sens 89 dB; imp 8 ohms. White finish with white metal grille. 12 x 9 x 3 in $299/pr

AUDIODYNE

The following are available directly from the manufacturer at a discount.

Omni-Flex Series II 2-Way Speaker
Omnidirectional design with twin transducers coupled to acoustically inert spherical diffuser. Separate cylinder and transfuser; removable transfuser-head assembly; cast-iron housings; isolated crossover network; custom twin-cell wiring; radial slot port to extend bass output. Includes spikes. Power handling 300 W; FR 29 Hz-20 kHz ±3 dB; sens 95 dB; imp 16 ohms. Cylinder finished in lacquered light-oak veneer, transfuser in mirrored-black; other finishes available. 5-yr transferable parts-and-labor warranty. 47-in height x 22-in diameter ..$15,000/pr

AUDIO ELECTRONICS

SP-301 2-Way Speaker
Dual 6½-in woofers and one 1¼-in soft-dome tweeter. Power handling 100 W; crossover point 2.8 kHz; FR 38 Hz-30 kHz; sens 90 dB; imp 6 ohms. Piano lacquer finish. 7½ x 40 x 12 in; 51 lb $1,099/pr
Kit version of above model $799/pr

SP-1A 2-Way Speaker
15-in woofer and 1-in horn mid/tweeter. FR 31 Hz-21 kHz; sens 94 dB; imp 8 ohms. Cherry-stained clear-coat finish. 19½ x 25 x 14 in; 63 lb ..$999/pr
Kit version of above model $699/pr

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Speakers

AUDIO NOTE

Model 3/L 2-Way Speaker
Bass-reflex design with 8-in paper-cone woofer and ¾-in ferrofluid-cooled dome tweeter. Audio Note AN-L pure-copper wiring. Imp 6 ohms. Black-ash veneer finish. 14⅜ x 32 x 11⅜ in; 43 lb . . .$2,995/pr
Model 3/SPX. As above with Audio Note AN-SPX pure-silver wiring. Mahogany, ash, or rosewood veneer finish available $4,795/pr
Model 3/SE-Silver. As Model 3/SPX, with pure-silver voice-coil wiring, pure-silver wire inductors. Bird's-eye maple veneer finish available . .$9,750/pr
Model 2/L. As Model 3/L, except 13 x 23 x 9⅝ in. 28 lb $1,995/pr

Model 1/L 2-Way Speaker
Acoustic-suspension design with 8-in paper-cone woofer and ¾-in ferrofluid-cooled dome tweeter. Audio Note AN-L pure-copper wiring. Imp 8 ohms. Black-ash veneer finish. 10¾ x 18½ x 8¼ in; 19 lb $1,295/pr

AUDIO PHYSIC

Drivers used in the following are computer-matched to ±0.5 dB tolerance.

Medea 2-Way Speaker
Three 8-in woofers and three 8-in midrange/tweeters. Tuned cabinets; patented driver diaphragms. Power handling 400 W; FR 21 Hz-24 kHz –3 dB; sens 91 dB; imp 4 ohms. Gray bird's-eye finish standard; custom finishes available. 9½ x 43¼ x 19½ in; 200 lb $49,995/pr

Caldera 3-Way Speaker
Two 6-in woofers, two 6½-in midranges, and one 1-in tweeter in 3 separate cabinets. Push-push woofer configuration; pneumatic midrange correction; patented magnet system. Power handling 200 W; FR 32 Hz-22 kHz –3 dB; sens 91 dB; imp 4 ohms. Mahogany finish. 9 x 43¾ x 19½ in; 118 lb $18,995/pr
As above, gray bird's-eye finish $19,995/pr

Avanti II 3-Way Speaker
Two 6-in woofers, one cast-magnesium midrange, and one 1-in tweeter. Push-push woofer configuration. Power handling 250 W; FR 22 Hz-34 kHz –3 dB; sens 88 dB; imp 4 ohms. Nutbush-root, bird's-eye maple, black ash, or mahogany finish. 6¼ x 39¼ x 16¼ in; 100 lb $9,495/pr
As above, nutbush finish $10,495/pr

Rhea Powered Subwoofer
Two 10-in woofers; 300-W amp. Velocity-feedback woofer-impulse control; resonance-free cabinet adjustable for room-size and wall stiffness. Crossover points selectable from 35, 46 or 61 Hz; FR 10-80 Hz –3 dB. Black, cherry, rosenut, bird's-eye maple, or mahogany finish. 29 x 18½ x 18½ in; 88 lb . . .$5,995

Virgo 3-Way Speaker
Two 6-in woofers, one 3½-in midrange, and one ¾-in tweeter. Push-push woofer configuration. Power handling 150 W; FR 34 Hz-21 kHz –3 dB; sens 90 dB; imp 4 ohms. 6¼ x 39¼ x 16¼ in; 57 lb $5,395/pr
As above, anthracite bird's-eye, rosenut, or maple finish $5,645/pr
Metal stand $225/pr

Tempo II 2-Way Speaker
6½-in hand-coated paper woofer and 1-in diamond-embossed-aluminum tweeter. Phase-corrected cabinet face; internal diffuser. Power handling 150 W; FR 36 Hz-27 kHz ±3 dB; sens 85 dB; imp 8 ohms. Cherry or anthracite bird's-eye maple finish. 9 x 41 x 18½ in; 56 lb $3,495/pr

Luna Powered Subwoofer
Acoustic-suspension design with two 8-in drivers; 150-W amp. Circuitry to reduce ringing in amp. Room EQ adjustment. Crossover point selectable at 32 Hz, 46 Hz, 80 Hz, or 105 Hz; FR 10 Hz-80 Hz. Cherry, black, or anthracite bird's-eye maple finish. 25 x 11 x 16 in; 58 lb $2,995/pr

Anniversary Step 2-Way Bookshelf Speaker
Bass-reflex design with 3½-in woofer and ¾-in plasma-coated tweeter. Low-distortion drive units; woofer directly coupled to inputs; molded tweeter diffusers. Biampable terminals. Power handling 60 W; FR 60 Hz-25 kHz; sens 84 dB; imp 4 ohms. Yew wood or Macassar ebony. 5-yr transferable warranty. 5½ x 13 x 9 in $2,495/pr

Spark 2-Way Speaker
Ported 3-chamber design with ceramic-coated woofer and tweeter. Power handling 100 W; FR 38 Hz-25 kHz –3 dB; sens 86 dB; imp 4 ohms. Cherry wood, black-ash veneer, or anthracite bird's-eye maple finish. 5¾ x 38⅜ x 8¾ in; 35 lb . . .$2,495/pr

Step 2-Way Bookshelf Speaker
3½-in woofer and ¾-in plasma-coated tweeter. Molded tweeter diffusers; no crossover; woofer directly coupled to inputs; internal diffuser. Power handling 60 W; FR 60 Hz-25 kHz ±3 dB; sens 84 dB; imp 4 ohms. Rosenut, cherry, or black ash finish. 5½ x 13 x 9 in; 11 lb $1,795/pr

AUDIOPLEX TECHNOLOGY

AT-802 2-Way In-Wall Speaker
8-in polypropylene-mica woofer and 1-in neodymium titanium-dome swiveling tweeter. 2nd-order crossovers. Includes mounting brackets. Power handling 90 W max; FR 40 Hz-25 kHz; imp 8 ohms. White. Lifetime warranty. Rectangular frame. Mounting area: 10 x 14 in. Mounting depth 3½ in $375/pr
AT-602. As above, 6½-in woofer. Power handling 70 W max; FR 50 Hz-25 kHz. Mounting area 8⅝ x 12 in. Mounting depth 3 in $330/pr

AT-6.5 2-Way Ceiling Speaker
6½-in graphite-polycarbonate-cone woofer and 1-in neodymium-dome tweeter. Swivel tweeter. Power handling 80 W rms; FR 55 Hz-20 kHz; imp 8 ohms. White. Lifetime warranty. Round frame. Mounting depth 3 in $294/pr

AT-5.25 2-Way In-Wall/Ceiling Speaker
5¼-in graphite-polycarbonate-cone woofer and ¾-in silk-dome tweeter. Swivel tweeter. Spring-clip terminals. Includes mounting brackets. Power handling 60 W rms. White finish. Round frame. Mounting depth ½ in $264/pr

AT-502 2-Way In-Wall Speaker
5-in polypropylene-mica cone woofer and ¾-in neodymium titanium-dome tweeter. Swivel tweeter; 2nd-order crossovers. Spring-clip terminals. Includes mounting brackets. Power handling 70 W max; FR 60 Hz-22 kHz; imp 8 ohms. White. Lifetime warranty. Rectangular frame. Mounting area: 7½ x 11 in. Mounting depth 2¼ in $255/pr

AUDIOSOURCE

SW-Twelve Powered Subwoofer
12-in driver; amp rated at 150 W rms. RCA line-level and spring-loaded speaker inputs and outputs. Phase-reverse switch; auto turn-on/off; input-level control. Crossover point adjustable from 40-180 Hz; FR 30-250 Hz. 16 x 17 x 18 in; 36 lb $449
SW-Eleven. As above, 10-in driver; 100-W amp. 15 x 15 x 12 in; 32 lb $399
SW-Nine. As above, 8-in driver; 60-W amp. FR 35 Hz-2.5 kHz. 14 x 15 x 12 in; 31 lb $299

Powered System Six/A Home Theater System
6-speaker system featuring SW-Six/A powered subwoofer; 5 satellite speakers, each with 4-in drivers $399
System Six/A. As above, passive subwoofer $299

SW-Two Powered Subwoofer
Tuned-port design with 10-in driver; amp rated at 100 W. RCA and spring-loaded speaker inputs and outputs. Auto turn-on/off; input-level and crossover-point controls. Crossover point variable from 40-180 Hz; FR 20-250 Hz. Black ash woodgrain cabinet. 11½ x 15 x 14 in; 35 lb $229

Project One 2-Way Outdoor Speaker
4-in carbon-fiber reinforced-polypropylene woofer and ⅝-in polycarbonate tweeter. Front baffle offset for time/phase alignment; weather-resistant polymer-resin cabinet; magnetic shielding. Integral pivoting bracket doubles as stand. Power handling 100 W; FR 60 Hz-20 kHz; sens 90 dB; imp 8 ohms. White, black, or computer-platinum. 6¼ x 9 x 6½ in; 6 lb $199/pr

MCSW-One Powered Subwoofer
8-in forward-firing woofer; amp rated at 50 W. Designed for minicomponent systems. RCA and spring-loaded speaker inputs and outputs. Auto on/off; input level control. Crossover point adjustable from 40-180 Hz; FR 30-250 Hz. Black ash woodgrain. 12 x 12 x 12 in $179

LS 500 2-Way Bookshelf Speaker
4-in polypropylene woofer and ¾-in dome tweeter. Power handling 75 W max; FR 80 Hz-20 kHz; sens 91 dB; imp 8 ohms. Black resin enclosure and black metal grille $139/pr

LS 300 2-Way Bookshelf Speaker
4-in polypropylene woofer and ½-in dome tweeter. Power handling 75 W max; FR 80 Hz-20 kHz; sens 91 dB. Black resin enclosure and black metal grille $129/pr

LS 100 3-Way Bookshelf Speaker
4-in polypropylene woofer, 2-in cone midrange, and ½-in dome tweeter. Power handling 50 W max; FR 100 Hz-20 kHz; sens 88 dB; imp 8 ohms. Black resin enclosure and black metal grille $99/pr
LS 200. As above, white $99/pr

In-Wall Speakers
IW-Three 2-Way In-Wall Speaker
8-in woofer and 1-in soft-dome tweeter. Power handling 100 W max; crossover point 2.5 kHz; FR 50 Hz-20 kHz; sens 92 dB; imp 8 ohms. White grille $250/pr

IW-Six 2-Way Ceiling Speaker
6½-in woofer and ¾-in dome tweeter. Power handling 100 W max; sens 91 dB; imp 8 ohms. White grille. Round frame. Mounting depth 3 in . .$200/pr

IW-Two 2-Way In-Wall Speaker
6½-in polycarbonate woofer and 1-in soft-dome tweeter. Power handling 75 W max; crossover point 3 kHz; FR 70 Hz-20 kHz; sens 90 dB; imp 8 ohms. White grille $200/pr

IW-Four In-Wall Subwoofer
8-in woofer. Power handling 100 W max; crossover point 120 Hz; FR 30-500 Hz; sens 90 dB; imp 8 ohms. White grille $150

IW-Five 2-Way Ceiling Speaker
5¼-in graphite-polypropylene woofer and ¾-in center-mounted dome tweeter. Power handling 75 W max; FR 80 Hz-20 kHz; sens 91 dB; imp 8 ohms. White grille. Mounting depth 3 in $130/pr

IW-One 2-Way In-Wall Speaker
5¼-in polycarbonate woofer and ½-in polyimide tweeter. Power handling 75 W max; crossover point 5 kHz; FR 80 Hz-20 kHz; sens 90 dB; imp 8 ohms. White grille $130/pr

AUDIOVECTOR

The following use a bass-reflex design, have a cherry, black, or rosewood finish, and carry a 5-year warranty.

AV3C 2-Way Center-Channel Speaker
Two 6-in carbon-fiber-reinforced woofers and one 1-in dome tweeter. Magnetic shielding. Biampable terminals. Power handling 150 W; FR 55 Hz-22 kHz ±2 dB; sens 92 dB; imp 8 ohms. 19½ x 7¾ x 10¼ in; 12 lb $945
AV3C Super. Upgraded version of above. FR 45 Hz-22 kHz ±2 dB $1,345

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M Series
The following are upgradable and feature patented low-compression treble systems and NRFB cabinets.

M3 Signature 2-Way Speaker
Two 6-in carbon-fiber-reinforced woofers and one 1-in soft-dome tweeter. Front/rear sandwich baffle. Triampable terminals. Power handling 330 W; FR 30 Hz-25 kHz ±2 dB; sens 90 dB; imp 8 ohms. 7¾ x 40 x 12 in; 57 lb $4,295/pr
M3. As above, power handling 250 W; sens 90.5 dB. Upgradable to M3 Signature. 7¾ x 40 x 11½ in; 53 lb $3,395/pr

M2 2-Way Speaker
Two 6-in carbon-fiber-reinforced woofers and one 1-in dome tweeter. Upgradable to M3. Triampable terminals. Power handling 200 W; FR 40 Hz-22 kHz ±2 dB; sens 91.5 dB; imp 8 ohms. Rosewood finish. 7¾ x 40 x 11½ in; 46 lb $2,495/pr
As above, cherry finish $2,345/pr
As above, black ash finish $2,295/pr

M1 Signature 2-Way Bookshelf Speaker
6-in carbon-fiber-reinforced woofer and 1-in dome tweeter. Front and rear sandwich baffle. Biampable terminals. Power handling 175 W; FR 45 Hz-25 kHz ±2 dB; sens 87 dB; imp 8 ohms. 7¾ x 13¾ x 11 in; 14 lb $2,345/pr

M1 Super 2-Way Bookshelf Speaker
6-in carbon-fiber-reinforced woofer and 1-in dome tweeter. Upgradable to M1 Signature. Biampable terminals. Power handling 150 W; FR 50 Hz-22 kHz ±2 dB; sens 87 dB; imp 8 ohms. 7¾ x 13¾ x 10½ in; 13 lb $1,645/pr

M1 2-Way Bookshelf Speaker
6-in carbon-fiber-reinforced woofer and 1-in dome tweeter. Upgradable to M1 Super. Biampable terminals. Power handling 100 W; FR 55 Hz-22 kHz ±2 dB; sens 87 dB; imp 8 ohms. 7¾ x 13¾ x 10 in; 11 lb $1,245/pr

AURA
The following have magnetic shielding and a woodgrain vinyl finish.

LSCP-2 Home Theater System
6-speaker system featuring with subwoofer with 10-in polypropylene-cone driver and 100-W amp; center speaker with two 5¼-in polypropylene woofers and monopole tweeter; four satellite speakers, each with 5¼-in polypropylene woofer and monopole tweeter. Proprietary tweeter technology; wood cabinets. 5-way binding posts for each speaker. Power handling 100 W; crossover point 2.8 kHz; FR 55 Hz-17.5 kHz satellite, 48 Hz-17.5 kHz center; sens 88 dB; imp 6 ohms. 5-yr warranty. Subwoofer: 15½ x 16 x 15½ in. Center: 16 x 6¾ x 10¼ in. Satellite 6¾ x 11½ x 8½ in $950

LST-837D 3-Way Speaker
Bass-reflex design with 8-in polypropylene woofer with butyl-rubber surround; 5¼-in polypropylene-cone midrange; dipole tweeter. Wood cabinet. 5-way binding posts. Power handling 150 W; crossover points 350 Hz and 2.8 kHz; FR 37 Hz-17.5 kHz ±3 dB; sens 88 dB; imp 6 ohms. 5-yr warranty. 10 x 33 x 15½ in; 36 lb $700/pr

LST-827D 2-Way Speaker
Bass-reflex design with 8-in polypropylene woofer with butyl-rubber surround; dipole tweeter. Wood cabinet. 5-way binding posts. Power handling 150 W; crossover point 2.0 kHz; FR 37 Hz-17.5 kHz ±3 dB; sens 88 dB; imp 6 ohms. 5-yr warranty. 10 x 30 x 14½ in; 29 lb $480/pr
LST-627M. As above with 6¼-in polypropylene woofer with butyl-rubber surround; monopole tweeter. Power handling 125 W; crossover point 2.2 kHz; FR 38 Hz-17.5 kHz ±3 dB; sens 88 dB; imp 6 ohms. 8 x 34 x 10¼ in; 26 lb $400/pr

LSS-107a Powered Subwoofer
10-in polypropylene woofer with butyl-rubber surround; 100-W amp. Wood cabinet. 5-way binding posts. Sens 90 dB. 15½ x 16 x 15½ in; 33 lb . . .$370

LSB-627M 2-Way Bookshelf Speaker
Bass-reflex design with 6¼-in polypropylene woofer and monopole tweeter. Proprietary tweeter technology; low-frequency alignment. 5-way binding posts. Power handling 125 W; crossover point 2.2 kHz; FR 48 Hz-17.5 kHz ±3 dB; sens 88 dB; imp 6 ohms. 5-yr warranty. 8 x 14 x 11¼ in; 13 lb $270/pr

LSB-527M 2-Way Bookshelf Speaker
Bass-reflex design with 5¼-in polypropylene woofer and monopole tweeter. Proprietary tweeter technology; wood cabinet. 5-way binding posts. Power handling 100 W; crossover point 2.8 kHz; FR 55 Hz-17.5 kHz ±3 dB; sens 88 dB; imp 6 ohms. 5-yr warranty. 6¾ x 11½ x 8½ in; 8 lb $200/pr

LSC-537M 2-Way Center-Channel Speaker
Bass-reflex design with two 5¼-in polypropylene woofers with butyl-rubber surrounds; monopole tweeter. Wood cabinet. 5-way binding posts. Power handling 100 W; crossover point 2.8 kHz; FR 48 Hz-17.5 kHz ±3 dB; sens 88 dB; imp 6 ohms. 5-yr warranty. 16 x 6¾ x 10¼ in; 12 lb $180

AVALON ACOUSTICS
The following have an ash, cherry, or walnut hardwood finish and, unless indicated otherwise, carry a limited 5-year warranty.

Osiris Reference Transducer Speaker System
Two 13-in polypropylene-Kevlar-composite cone subwoofers, one 9-in Nomex-Kevlar-composite cone woofer, one 2-in aluminum-magnesium dome midrange, one 1-in titanium-dome tweeter, and one 1-in concave ceramic-dome supertweeter. Two speaker cabinets and two crossover cabinets per channel. Power handling 1,000 W; FR 20 Hz-40 kHz system; sens 88 dB; imp 4 ohms. 17 x 75 x 48 in; 2,200 lb $72,000

Eidolon Dynamic Transducer 3-Way Speaker
11-in Nomex-Kevlar woofer, 3½-in concave ceramic-dome midrange, and 1-in ceramic-dome tweeter. Power handling 500 W; sens 87 dB; imp 4 ohms. 12 x 44 x 17 in; 150 lb $19,500/pr

Radian HC 3-Way Speaker
Two 9-in Nomex-Kevlar woofers, one 3½-in Nomex-Kevlar-composite midrange, and one 1-in titanium-dome tweeter. Power handling 500 W; FR 20 Hz-24 kHz; sens 88 dB; imp 4 ohms. 12 x 48 x 19 in; 170 lb $12,995/pr

Eclipse 2-Way Speaker
9-in Nomex-Kevlar-composite woofer and 1-in titanium-dome tweeter. Power handling 300 W; FR 35 Hz-24 kHz; sens 86 dB; imp 6 ohms. 11 x 39 x 15 in; 95 lb $7,900/pr

Arcus 2-Way Speaker
8½-in Nomex-Kevlar-composite woofer and 1-in titanium inverted-dome tweeter. Power handling 150 W; FR 35 Hz-24 kHz; imp 5 ohms. 3-yr warranty. 9½ x 37 x 13 in; 70 lb $6,995/pr

Avatar 2-Way Speaker
8-in Nomex-Kevlar-composite woofer and 1-in titanium-dome tweeter. Power handling 200 W; Sens 85 dB; imp 6 ohms. 10 x 34 x 13 in; 65 lb $5,395/pr

Monitor 2-Way Bookshelf Speaker
7-in Nomex-Kevlar-composite woofer and 1-in titanium-dome tweeter. Power handling 150 W; Sens 87 dB; imp 6 ohms. Ash, cherry, or walnut hardwood finish. 9 x 18 x 11 in; 31 lb . . .$3,295/pr

AVANTGARDE ACOUSTIC
The following are imported from Germany. They have 80-W amps and a bass-level control and phase switch. Custom colors are available for an extra $1,000. Enhanced subwoofers are an additional $800.

Trio System 4-Way Speaker/Powered Subwoofer
Built-in powered subwoofer with four 7-in woofers; speaker section with 38-in horn midrange, 23-in horn midrange, and 7¼-in horn tweeter. Crossover point selectable at 100 Hz, 600 Hz, and 4 kHz; FR 22 Hz-20 kHz; sens 106 dB; imp 8 ohms. 52 x 67 x 33 in; 267 lb $38,900
Trio Compact. As above, compact design. 38 x 67 x 33 in; 227 lb $36,900

Duo 3-Way Speaker/Powered Subwoofer
Built-in powered subwoofer with two 7-in woofers; speaker section with 27-in horn midrange and 7¼-in horn tweeter. Crossover points 170 Hz and 2 kHz; FR 22 Hz-20 kHz; sens 103 dB; imp 8 ohms. 27 x 68 x 28 in; 140 lb $13,900

Uno 3-Way Speaker/Powered Subwoofer
Built-in powered subwoofer with two 7-in woofers; speaker section with 23-in horn midrange and 7¼-in horn tweeter. Crossover points 220 Hz and 3.5 kHz; FR 22 Hz-20 kHz; sens 99 dB; imp 8 ohms. 23 x 60 x 27 in; 106 lb $9,100

AVID DYNAMICS
Home Video Series
The following are finished in black ash or oak vinyl with matching grilles and carry a 5-year parts-and-labor warranty.

Tower 3-Way Speaker
8-in polypropylene woofer, 4½-in polypropylene midrange, and 1-in dome tweeter. FR 34 Hz-22 kHz; imp 8 ohms. 10 x 33 x 10 in $600/pr

The Ideal 2-Way Speaker
9-in polypropylene-cone woofer and 1-in soft-dome tweeter. Crossover point 2.8 kHz; FR 40 Hz-25 kHz; sens 92 dB; imp 8 ohms. 11½ x 18½ x 7¾ in $400/pr

The Neat 2-Way Bookshelf Speaker
Bass-reflex design with 7-in polypropylene woofer and ¾-in ferrofluid-cooled hard-dome tweeter. Crossover point 5.5 kHz; FR 53 Hz-20 kHz ±3 dB; sens 90 dB; imp 8 ohms. 11 x 18 x 8 in . . .$290/pr
The Peanut. As above, 5¼-in polypropylene woofer. Crossover point 8 kHz; FR 65 Hz-20 kHz ±3 dB; sens 89 dB. 6½ x 10 x 7 in $220/pr

Sterling Series
The following are finished in walnut vinyl with a brown double-knit grille and carry a 5-year parts-and-labor warranty.

102 2-Way Speaker
10-in polypropylene woofer and 1-in soft-dome tweeter. Sens 90 dB; imp 8 ohms. 13 x 27½ x 10½ in $520/pr

80 2-Way Bookshelf Speaker
8-in polypropylene woofer and 1-in dome tweeter. Sens 90 dB; imp 8 ohms. 11 x 17½ x 9 in . . .$380/pr

60 2-Way Bookshelf Speaker
6½-in polypropylene woofer and ¾-in hard-dome tweeter. Crossover point 3.5 kHz; FR 65 Hz-20 kHz; sens 90 dB; imp 8 ohms. 9¾ x 15½ x 7½ in .$275/pr

Linear K Series
The following feature a black Bahi finish and black grilles and carry a 5-year warranty.

K-90 2-Way Speaker
9-in polypropylene-cone woofer and 1-in dome tweeter. Crossover point 3.5 kHz; FR 42 Hz-27 kHz; sens 98 dB; imp 8 ohms. 12½ x 23 x 9½ in . .$400/pr

K-70 2-Way Speaker
7-in polypropylene-cone woofer and ¾-in polypropylene-carbon tweeter. Crossover point 5 kHz; FR

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45 Hz-25 kHz; sens 94 dB; imp 8 ohms. 8¼ x 13½ x 7½ in $300/pr

Continental Series
Model 80/2 2-Way Bookshelf Speaker
8-in woofer and ¾-in dome tweeter. Light walnut-grain finish with black double-knit grille. 9½ x 14½ x 6 in $340/pr
Model 60/2. As above, 6½-in woofer $250/pr

AVLAR RESEARCH TECHNOLOGY

TFT-1 2-Way Speaker
Bass-reflex design with 6½-in trilaminate woofer with rubber surround and 10½ square-in Avlar thin-film transducer midrange/tweeter. Accelerated-velocity linear-amplitude response; phase-coherent crossover; low-diffraction cabinet design. Dual gold-plated binding posts for biamping. Power handling 250 W; crossover point 1.5 kHz; FR 45 Hz-23 kHz ±3 dB; sens 92 dB; imp 8 ohms. Black oak vinyl finish. 5-yr parts-and-labor warranty. 9⅜ x 15 x 14⅝ in; 20 lb $899/pr

A.W.H.

AWH180A Bipolar Speaker
Bipolar design with two full-range Mylar drivers. Magnetic shielding. Power handling 100 W max; FR 20 Hz-20 kHz ±3 dB; sens 96 dB; imp 8 ohms. Black. 12½ x 60 x 2½ in; 60 lb $1,100/pr
AWH90A. As above, power handling 75 W max; FR 40 Hz-20 kHz ±3 dB; sens 91 dB. 12 x 24 x 2½ in; 15 lb $416/pr

AXIOM

The following are available in black or rosewood.

AX 5 3-Way Speaker
Dual-enclosure design with 10-in woofer, 5-in woofer, and 1-in dome tweeter. Power handling 400 W; crossover point 300 Hz; FR 29 Hz-22 kHz ±2 dB; sens 87 dB; imp 6 ohms. 36 x 12 x 12 in; 104 lb $1,499/pr

AX 500A Powered Subwoofer
10-in woofer; 180-W amp. Crossover point 120 Hz; FR 20-120 Hz ±3 dB; sens 88 dB. 30 x 12 x 14 in; 56 lb $999

AX 3 3-Way Speaker
Dual-enclosure design with 8-in woofer, 5-in woofer, and 1-in dome tweeter. Power handling 300 W; crossover point 300 Hz; FR 36 Hz-22 kHz ±2 dB; sens 88 dB; imp 6 ohms. 36 x 10 x 10 in; 84 lb $849/pr

AX 2+2 2-Way Speaker
Tuned-port design with two 8-in woofers and one 1-in dome tweeter. Power handling 250 W; crossover point 2.5 kHz; FR 40 Hz-22 kHz ±3 dB; sens 93 dB; imp 6 ohms. 31 x 10 x 11 in; 84 lb $699/pr

AX 150A Powered Subwoofer
10-in woofer; 100-W amp. Crossover point 120 Hz; FR 25-120 Hz ±3 dB; sens 89 dB. 30 x 12 x 14 in; 48 lb $649

AX 500 Subwoofer
Tuned-port design with 10-in woofer. Power handling 400 W; crossover point 120 Hz; FR 29-120 Hz; sens 91 dB; imp 8 ohms. 24 x 12 x 14 in; 38 lb $599

AX 1 2-Way Speaker
Tuned-port design with 5-in woofer and 1-in dome tweeter. Power handling 150 W; crossover point 300 Hz; FR 70 Hz-22 kHz ±2 dB; sens 87 dB; imp 6 ohms. 11 x 6 x 6 in; 23 lb $549/pr

AX 2 2-Way Speaker
Tuned-port design with 8-in woofer and 1-in dome tweeter. Power handling 250 W; crossover point 3.2 kHz; FR 40 Hz-22 kHz ±2 dB; sens 89 dB; imp 8 ohms. 24 x 10 x 10 in; 56 lb $549/pr

B&W Emphasis

AX 2 2-Way Bookshelf Speaker. As above, FR 43 Hz-22 kHz ±2 dB. 19 x 10 x 10 in; 48 lb . . .$449/pr

AX 120A Powered Subwoofer
8-in woofer; 80-W amp. Crossover point 120 Hz; FR 30-120 Hz ±3 dB; sens 89 dB; imp ohms. 19 x 10 x 11 in; 24 lb $399

AX 1.5 2-Way Speaker
Tuned-port design with 6½-in woofer and ¾-in dome tweeter. Power handling 150 W; crossover point 3.5 kHz; FR 45 Hz-22 kHz ±2 dB; sens 89 dB; imp 8 ohms. 19 x 8 x 8 in; 36 lb $299/pr
AX 1.5 2-Way Bookshelf Speaker. As above, FR 50 Hz-22 kHz ±2 dB. 15 x 8 x 8 in; 23 lb . . .$249/pr

AX 150 Subwoofer
Tuned-port design with 10-in woofer. Power handling 250 W; crossover point 120 Hz; FR 35-120 Hz; sens 91 dB; imp 8 ohms. 24 x 12 x 14 in; 36 lb .$299

AX 1.2 2-Way Speaker
Tuned-port design with 5-in woofer and ¾-in dome tweeter. Power handling 125 W; crossover point 3.5 kHz; FR 70 Hz-22 kHz; sens 91 dB; imp 8 ohms. 11 x 6 x 8 in; 15 lb $199/pr

AX 120 Subwoofer
Tuned-port design with 8-in woofer. Power handling 200 W; crossover point 120 Hz; FR 40-120 Hz; sens 91 dB; imp 8 ohms. 10 x 12 x 12 in; 15 lb $199

AX 1.2CC 2-Way Speaker
Acoustic-suspension design with two 5-in woofers and one ¾-in dome tweeter. Power handling 150 W; crossover point 120 Hz; FR 90 Hz-22 kHz ±3 dB; sens 92 dB; imp 8 ohms. 16 x 6 x 7 in; 11 lb . . .$129

BAG END

The following carry a 6-year warranty. All 2-way speakers have time-aligned drivers; unless otherwise noted, all subwoofers are designed to be used with Bag End's patented ELF (Extended Low Frequency) processor.

MM-8H 2-Way Speaker
Bass-reflex design with 8-in cone woofer and 1¾-in aluminum tweeter. Power handling 100 W; FR 70 Hz-19 kHz; sens 84 dB; imp 8 ohms. Walnut and black enclosure with removable black-cloth grille. 12¼ x 17½ x 8 in $2,264/pr

Infrasub Powered Subwoofer
Acoustic-suspension design with 18-in driver; amp rated at 400 W. Fiberboard enclosure; built-in ELF integrator. FR 8-90 Hz with ELF engaged; sens 92 dB; imp 4 ohms. Black finish. 22 x 22 x 18 in .$1,495
Infra-18/R. As above, rosewood finish $2,895
Infra-18/M. As above, bird's-eye maple finish $2,795
Infra-18/W. As above, black walnut finish .$2,495
Infra-18/O. As above, red oak $2,395

S18E-I Subwoofer
Acoustic-suspension design with 18-in driver; requires outboard ELF processor. Fiberboard enclosure. Power handling 400 W with ELF engaged; FR 8-70 Hz with ELF engaged; sens 92 dB; imp 8 ohms. Black. 22 x 22 x 18 in; 80 lb $820
D10E-I. As above, two 10-in drivers. Imp 4 ohms. Oak veneer finish. 22 x 13 x 13 in; 54 lb $710
S10E-I. As above, black $420

S12E-I Subwoofer
Acoustic-suspension design with 12-in driver; requires outboard ELF processor. Power handling 150 W with ELF engaged; FR 8-70 Hz with ELF engaged; sens 92 dB; imp 8 ohms. Black finish. 14½ x 13 x 11½ in; 26 lb $520
D12E-I. As above, two 12-in subwoofers $790

B&W

Signature 30 3-Way Speaker
Bass-reflex design with 7-in aluminum-cone woofer, 7-in Kevlar midrange, and 1-in metal-dome tweeter. Silver wiring; matrix enclosure; acoustically isolated crossover. Biampable terminals. Includes floor spikes. Power handling 200 W; crossover points 150 Hz and 3 kHz; FR 38 Hz-20 kHz ±3 dB; sens 89 dB; imp 8 ohms. Gray tiger's-eye or red bird's-eye maple. 5-yr warranty. 10¾ x 40½ x 15 in; 82 lb $12,000/pr

Emphasis 2-Way Speaker
Bass-reflex design with 6½-in Kevlar woofer and 1-in metal-dome tweeter. Saxophone-shaped enclosure. One set of 5-way binding posts. Includes pedestal stands. Power handling 120 W; crossover point 3 kHz; FR 45 Hz-20 kHz ±3 dB; sens 87 dB; imp 8 ohms. Black or white. 5-yr warranty. 16½ x 54 x 14 in; 77 lb $9,000/pr

Silver Signature 2-Way Speaker
Bass-reflex design with 6½-in Kevlar woofer and 1-in metal-dome tweeter. Biampable binding posts. Includes stands and cables. Power handling 120 W; crossover point 3 kHz; FR 35 Hz-22 kHz ±3 dB; sens 88 dB; imp 8 ohms. Bird's-eye maple or Bobinga root. 5-yr warranty. 10 x 17¾ x 9⅝ in; 30 lb $8,000/pr

NHTM 1 3-Way Center-Channel Speaker
Flared-port bass-reflex design with two 6½-in paper/Kevlar woofers, one 6-in Kevlar midrange, and one 1-in metal-dome tweeter. Matrix bass enclosure; waveguide tweeter enclosure; time-aligned driver configuration. 2 sets of biampable 5-way binding posts. Includes rubber feet. Power handling 250 W; crossover points 350 Hz and 4 kHz; FR 42 Hz-22 kHz; sens 90 dB; imp 8 ohms. Round cabinet corners; black ash, red cherry, or natural cherry real-wood veneer. 5-yr warranty. 31 x 13 x 12 in; 36 lb $2,000

ASW-3000 Powered Subwoofer
Vented design with 15-in forward-firing driver; amp rated at 300 W. Magnetic shielding. Line- and speaker-level inputs and outputs. Level and phase controls. Includes floor spikes. Crossover point variable from 40-140 Hz; FR 18-140 Hz. Black ash vinyl. 5-yr warranty. 24 x 22¾ x 23½ in; 110 lb $1,500
ASW-2000. As above, 12-in driver and 175-W amplifier. FR 22-140 Hz. 21½ x 19¾ x 19¾ in; 77 lb $1,000
ASW-1000. As above, 120 W-amp. FR 25-140 Hz. 21¼ x 18 x 19¾ in; 66 lb $700

SCM-8 2-Way THX Dipolar Surround Speaker
Acoustic-suspension dipolar design with two 6½-in

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Kevlar woofers and two 1½-in fluid-cooled metal-dome tweeters. THX-certified; magnetic shielding. Power handling 200 W; crossover point 3 kHz; FR 105 Hz-25 kHz –6 dB; sens 87 dB; imp 4 ohms. Black ash finish. 14¼ x 14 x 9½ in; 24 lb . .$1,500/pr

PCS-8 THX Subwoofer
Bass-reflex design with 12-in woofer. THX-certified; magnetic shielding. Power handling 200 W; FR 35-150 Hz; sens 89 dB; imp 8 ohms. Black ash finish. 22⅞ x 23⅝ x 23½ in; 70 lb $1,250

FCM-8 2-Way THX Speaker
Acoustic-suspension design with two 6½-in Kevlar woofers and three 1-in fluid-cooled metal-dome tweeters. THX-certified; magnetic shielding. Power handling 200 W; crossover point 3 kHz; FR 80 Hz-22 kHz –3 dB; sens 90 dB; imp 6 ohms. Black ash finish. 10¼ x 23⅝ x 9 in; 28 lb $1,000

NHTM 2 2-Way Center-Channel Speaker
Flared-port bass-reflex design with 6½-in woofer and 1-in metal-dome tweeter. Matrix bass enclosure; waveguide tweeter enclosure; time aligned driver configuration. 2 sets of biampable 5-way binding posts. Includes rubber feet. Power handling 120 W; crossover point 4 kHz; FR 50 Hz-22 kHz; sens 88 dB; imp 8 ohms. Round cabinet corners; black-ash, red-cherry, or natural-cherry real wood veneer. 5-yr warranty. 19 x 11 x 11 in; 20 lb $1,000

Nautilus 800 Series
The following use a flared-port bass-reflex design with a matrix bass enclosure, waveguide mid-range and tweeter enclosures, and a time-aligned driver configuration. All have 2 sets of biampable 5-way binding posts. The cabinets have rounded corners and come in black ash, red cherry, and natural cherry real-wood veneers. All have a 5-year warranty.

N801 3-Way Speaker
15-in paper/Kevlar woofer, 6-in Kevlar midrange, and 1-in metal-dome tweeter. Includes rolling casters and metal plinth. Power handling 1000 W; crossover points 350 Hz and 4 kHz; FR 29 Hz-22 kHz ±3 dB; sens 91 dB; imp 8 ohms. 21 x 44 x 27 in; 229 lb $11,000/pr
N802. As above, two 8-in paper/Kevlar woofer. Power handling 500 W; FR 34 Hz-22 kHz ±3 dB. 15 x 44 x 22 in; 154 lb $8,000/pr

N803 3-Way Speaker
Two 7-in paper/Kevlar woofer, one 6-in Kevlar midrange, and one 1-in metal-dome tweeter. Includes floor spikes. Power handling 250 W; crossover points 350 Hz and 4 kHz; FR 35 Hz-22 kHz ±3 dB; sens 90 dB; imp 8 ohms. 11 x 42 x 17 in; 66 lb $5,000/pr
N804. As above, two 6½-in paper/Kevlar woofers. Power handling 200 W; FR 38 Hz-22 kHz ±3 dB; sens 89 dB. 9 x 40 x 14 in; 54 lb $3,500/pr

N805 2-Way Bookshelf Speaker
6½-in Kevlar woofer and 1-in metal-dome tweeter. Includes rubber feet. Power handling 120 W; crossover point 4 kHz; FR 49 Hz-22 kHz ±3 dB; sens 88 dB; imp 8 ohms. 9 x 16 x 14 in; 20 lb $2,000/pr

CDM Series
CDM-7SE 3-Way Speaker
Vented design with 6½-in paper/Kevlar woofer, 6½-in Kevlar midrange, and 1-in alloy free-field tweeter. Biampable terminals. Includes floor spikes. Power handling 30-150 W; crossover points 150 Hz and 3 kHz; FR 40 Hz-20 kHz ±3 dB; sens 90 dB; imp 8 ohms. Black ash, red ash, or cherry wood veneer. 5-yr warranty. 8⅝ x 37⅜ x 11⅜ in; 41 lb $1,800/pr

CDM-1SE 2-Way Speaker
Bass-reflex design with 6½-in Kevlar woofer and 1-in fluid-cooled metal-dome tweeter. Biampable terminals. Power handling 120 W; crossover point 3 kHz; FR 58 Hz-20 kHz ±3 dB; sens 88 dB; imp 8 ohms. Red ash, black, or cherry veneer finish. 8⅝ x 14½ x 10¾ in; 18 lb $1,100/pr
CDM-2SE. As above, FR 70 Hz-20 kHz ±2 dB; sens 87 dB. 8⅝ x 12¼ x 9½ in; 16 lb $800/pr

CDM-CSE 2-Way Center-Channel Speaker
Bass-reflex design with 6½-in Kevlar woofer and 1-in alloy-dome free-field tweeter. Magnetic shielding. 2 sets of biampable 5-way binding posts. Power handling 120 W; crossover point 3 kHz; FR 50 Hz-20 kHz ±3 dB; sens 90 dB; imp 8 ohms. Black ash veneer finish. 5-yr warranty. 18⅛ x 10¼ x 10¾ in; 23 lb $550

Digital Monitor 600 Series
The following have biwireable terminals and a black ash vinyl finish.

DM 604 3-Way Speaker
Bass-reflex design with two 7-in Cobex woofers, one 7-in Kevlar midrange, and one 1-in fluid-cooled metal-dome tweeter. Power handling 200 W; crossover points 450 Hz and 3 kHz; FR 44 Hz-20 kHz ±3 dB; sens 90 dB; imp 8 ohms. 9¼ x 39¼ x 16¼ in; 62 lb $1,600/pr

DM 603 2-Way Speaker
Bass-reflex design with 7-in Kevlar woofer, 7-in passive radiator, and 1-in fluid-cooled metal-dome tweeter. Power handling 120 W; crossover point 3 kHz; FR 47 Hz-20 kHz ±3 dB; sens 90 dB; imp 8 ohms. 9¼ x 33½ x 12 in; 38 lb $1,000/pr

DS 6 2-Way THX Dipolar Surround Speaker
Dipolar acoustic-suspension design with one 5-in Kevlar woofer and two 3-in paper high-frequency drivers. Power handling 100 W; crossover point 250 Hz; FR 85 Hz-12 kHz ±3 dB; sens 89 dB; imp 8 ohms. Black or white finish. 15 x 9¾ x 6 in; 13 lb $600/pr
CDS 6. In-wall version of DS 6. Includes mounting kit. White finish. 11¼ x 14¾ x 2⅝ in $600/pr

DM 602 2-Way Speaker
Bass-reflex design with 7-in Kevlar woofer and 1-in fluid-cooled metal-dome tweeter. Power handling 120 W; crossover point 3 kHz; FR 52 Hz-20 kHz ±3 dB; sens 90 dB; imp 8 ohms. 9¼ x 19⅜ x 12 in; 22 lb $550/pr

DM 601 2-Way Speaker
Bass-reflex design with 6½-in Kevlar woofer and 1-in fluid-cooled metal-dome tweeter. Power handling 100 W; crossover point 3 kHz; FR 70 Hz-20 kHz ±3 dB; sens 88 dB; imp 8 ohms. 8 x 14 x 9⅝ in; 13 lb $400/pr

CC 6 2-Way Center-Channel Speaker
Bass-reflex design with two 5-in Kevlar woofers and one 1-in fluid-cooled metal-dome tweeter. Magnetic shielding. Power handling 120 W; crossover point 3 kHz; FR 78 Hz-20 kHz ±3 dB; sens 89 dB; imp 8 ohms. Black ash vinyl finish. 17¾ x 6 x 10⅞ in; 14 lb $350

In-Wall Series
The following have a semi-matte white finish.

Signature Seven 2-Way In-Wall Speaker
7-in Kevlar woofer and 1-in metal-dome tweeter. Overload-protection circuitry. Power handling 150 W; crossover point 3 kHz; FR 40 Hz-20 kHz ±3 dB; sens 88 dB; imp 8 ohms. 11¼ x 14¾ x 4 in$1,000/pr

CWM-8i 2-Way In-Wall Speaker
8-in polypropylene woofer and 1-in metal-dome tweeter. Overload protection circuitry. Power handling 100 W; crossover point 3 kHz; FR 40 Hz-20 kHz ±3 dB; sens 90 dB; imp 4 ohms. 11¼ x 14¾ x 3⅜ in $650/pr
CWM-6i. As above, 6½-in woofer. Power handling 70 W; FR 55 Hz-20 kHz ±3 dB; sens 89 dB; imp 6 ohms. 9⅝ x 13¼ x 3 in $450/pr
CWM-5. As above, 5-in woofer. Power handling 70 W; crossover point 3.5 kHz; FR 75 Hz-20 kHz ±3 dB; sens 87 dB; imp 8 ohms. 6¼ x 9 x 3 in $300/pr

CCM 60 2-Way In-Wall Speaker
Coaxial design with 6½-in polypropylene woofer and 1-in polyester-film tweeter. Can be mounted flush with wall or ceiling. Power handling 80 W; crossover point 5 kHz; FR 60 Hz-20 kHz ±3 dB; sens 90 dB; imp 4 ohms. Round frame. Mounting diameter: 9 in. Mounting depth 3⅛ in $200/pr

300 Series
The following have a 1-in soft-dome tweeter and proprietary Prism enclosure.

DM 305 2-Way Speaker
Vented design with 6½-in doped-paper woofer. 4th-order Butterworth filters; rear and front vents. Includes floor spikes. Power handling 25-120 W; crossover point 3 kHz; FR 55 Hz-20 kHz; sens 91 dB; imp 8 ohms. Black ash. 5-yr warranty. 8½ x 33⅛ x 12⅛ in; 24 lb $450/pr

DM 302 2-Way Speaker
Bass-reflex design with 5-in doped-paper cone woofer. Power handling 100 W; crossover point 3 kHz; FR 72 Hz-20 kHz ±3 dB; sens 91 dB; imp 8 ohms. Black ash vinyl finish. 7¼ x 12⅝ x 8⅞ in; 9 lb $250/pr

CC 3 2-Way Center-Channel Speaker
Bass-reflex design with two 4-in fiber woofers. Magnetic shielding. Power handling 100 W; crossover point 3 kHz; FR 80 Hz-20 kHz ±3 dB; sens 91 dB; imp 8 ohms. Black ash vinyl finish. 15¾ x 5⅜ x 8¼ in; 10 lb $180

BANG & OLUFSEN

Beolab Penta 3-Way Powered Speaker
Bass-reflex design with four 5-in woofers, four 3-in midranges, and one 1-in dome tweeter; amp rated at 281 W rms. 5-sided cabinet finished in stainless steel; dynamic clipping-attenuator circuit. Alphanumeric display for Bang & Olufsen system information; 3-position bass-compensation switch; auto turn-on/off. Crossover points 700 Hz and 5 kHz; FR 40 Hz-20 kHz +4, –8 dB; sens 94 dB. 8⅛ x 65 x 13⅛ in; 53 lb $5,000/pr

Beolab 8000 2-Way Powered Speaker
Bass-reflex design with two 4-in long-throw woofers and one ¾-in ferrofluid-cooled tweeter; amp rated at 145 W rms. Tubular aluminum cabinet with conical tip and mirror finish; biamplified drivers; cast-iron base; 24-dB/oct Linkwitz-Riley active crossover; dynamic treble-balancing circuitry; 30-dB/oct high-pass filter at 40 Hz; polystyrene front baffle; magnetic shielding. Line-level input; Power Link input for Bang & Olufsen systems. Auto turn-on. Crossover point 4.2 kHz; FR 52 Hz-20 kHz +4, –8 dB. 6⅛ x 52 x 6⅛ in; 44 lb $3,000/pr

Beolab 6000 2-Way Powered Speaker
Bass-reflex design with two 3½-in woofers and one ¾-in dome tweeter; amp rated at 59 W rms. Extruded one-piece ⅛-in thick aluminum oval-column cabinet; proprietary dynamic bass-optimization circuitry; active filtering with 30-dB/oct slope at resonant frequency and 24-dB/oct slopes elsewhere; biamplified drivers; magnetic shielding. Line- and speaker-level inputs; Power Link input for Bang & Olufsen systems. Auto turn-on/off. Crossover point 3 kHz; FR 55 Hz-22 kHz +4, –8 dB. Polished and anodized silver finish. 8 x 43⅜ x 8½ in; 24 lb $2,200/pr

Beolab 4000 2-Way Bookshelf Speaker
Bass-reflex design with 4½-in long-throw woofer and ¾-in ferrofluid-cooled neodymium tweeter. Elliptical-shaped aluminum cabinet; Adaptive Bass Linearization (ABL) automatically controls bass response; magnetic shielding. 2 Power Link inputs; 1 RCA line-level input. Signal-sensitive turn-on from line input. Includes two 16-ft Power Link cables, two 6-ft AC cords, and 2 wall brackets. Floor stand optional. Power handling 59 W; FR 55 Hz-20 kHz. Natural, green, or black anodized aluminum. 11⅛ x 12⅝ x 5⅛ in; 14 lb $1,800/pr

"To say this system is great is a gross understatement."*

Atlantic Technology has done more research on home theater speaker design than any other company around. *Total System Integration Design* ensures precise matching between the speakers, the environment, and the associated electronics. It's no wonder Atlantic Technology is regarded as a world leader in developing innovative home theater speaker systems.

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Atlantic Technology
INNOVATIVE HOME THEATER

Home Theater Magazine, October, 1998

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CX-100 2-Way Bookshelf Speaker
Two 4-in woofers and one 1-in tweeter. Pressure-chamber cabinet. Includes wall bracket. Power handling 100 W; FR 64 Hz-20 kHz +4, –8 dB; sens 89 dB; imp 6 ohms. 4¾ x 12¾ x 8⅛ in; 11 lb . . .$600/pr

CX-50 2-Way Bookshelf Speaker
4-in woofer and 1-in tweeter. Pressure-chamber cabinet. Includes wall bracket. Power handling 50 W; FR 84 Hz-20 kHz +4, –8 dB; sens 89 dB; imp 6 ohms. 4¾ x 8¾ x 8⅛ in; 8 lb $400/pr

BGW SYSTEMS

M2200 THX Powered Subwoofer
Bass-reflex design with four 15-in drivers; outboard 2,800-W amp. THX-certified; clipping, speaker excursion, and filter input limiters; speed-controlled cooling fan; overheat protection; separate signal-processor module and power-output modules; ¾-in plywood enclosure with carpet wrapped cover. XLR inputs; high-pass output on barrier strip. Level control; electronic crossover; remote power-on/off control. Caster plate and covers optional. Crossover point selectable at 63, 71, 80, 100, 112, 125, 140, 160, and 180 Hz; FR 25 Hz-180 Hz. 33¾ x 42¾ x 31 in; 454 lb $4,999
M1100. As above with two 15-in drivers; outboard 1,400-W amp. 31½ x 26¾ x 28 in; 192 lb . . .$2,995

B•I•C AMERICA

Venturi Series

Forza 3-Way Speaker/Powered Subwoofer
Built-in 170-W powered subwoofer with 12-in driver; speaker section with 6-in polypropylene-graphite midrange and ¾-in polypropylene-dome tweeter. Crossover point variable from 50-150 Hz subwoofer, 3.5 kHz speaker; FR 22 Hz-20 kHz; sens 90 dB; imp 8 ohms. Black or oak laminate finish. 7-yr driver, 1-yr amp parts-and-labor warranty. 9 x 38 x 17 in $999/pr

V-1200R Powered Subwoofer
Tuned-port design with down-firing 12-in long-throw woofer; 170-W amp. FR 25-180 Hz. Black laminate finish. 7-yr woofer, 1-yr amp parts-and-labor warranty. 14½ x 18½ x 22½ in $589
V-1000R. As above, down-firing 10-in long-throw woofer; 150-W amp. FR 20-180 Hz. 13 x 18⅝ x 17½ in $459
V-800R. As above, 70-W amp. FR 33-120 Hz. 12¼ x 16 x 16½ in $349
V-8. As above, down-firing 8-in long-throw woofer; 60-W amp. FR 37-120 Hz. 11¼ x 11¼ x 11¼ in $299

V-535 2-Way Speaker
Vented design with two 5¼-in polymer-coated woofers and one ½-in polypropylene-dome tweeter. Magnetic shielding. Power handling 10 W min, 150 W max; crossover point 5 kHz; FR 38 Hz-20 kHz; sens 90 dB; imp 8 ohms. Black or oak finish. 7-yr parts-and-labor warranty. 7 x 35¾ x 13 in $499/pr
V-636. As above, two 6-in polypropylene-graphite woofers and one ¾-in polypropylene-dome tweeter. Power handling 10 W min, 175 W max; crossover point 3 kHz; FR 32 Hz-20 kHz. 9 x 38 x 15 in . .$299

V1-32 3-Way In-Wall Speaker
8-in polypropylene-graphite woofer and 2½-in polypropylene midrange with coaxially mounted ¾-in polypropylene-dome tweeter. Power handling 10 W min, 120 W max; crossover points 600 Hz and 3 kHz; FR 36 Hz-23 kHz; sens 90 dB; imp 8 ohms. White ABS plastic with white metal grille. 7-yr parts-and-labor warranty $450/pr

DV-62 2-Way Bookshelf Speaker
6-in woofer and ¾-in dome tweeter. Crossover point 3.5 kHz; FR 43 Hz-20 kHz; sens 90 dB; imp 8 ohms. Black or oak finish with black knit cloth. 8⅞ x 14¾ x 9⅛ in; 12 lb $275/pr

DV-52 2-Way Bookshelf Speaker
5¼-in woofer and ½-in dome tweeter. Magnetic shielding. Crossover point 5 kHz; FR 55 Hz-20 kHz; sens 90 dB; imp 8 ohms. Oak or black finish with black knit cloth. 7 x 11¾ x 7¼ in; 9 lb $219/pr

DV-32 2-Way Minispeaker
3½-in woofer and ½-in dome tweeter. Magnetic shielding. Crossover point 5 kHz; FR 80 Hz-20 kHz; imp 8 ohms. White or black finish. 5 x 7 x 4 in; 5 lb $149/pr

Muro Series
The following have white ABS plastic enclosures with white metal grilles.

M-8.3 3-Way In-Wall Speaker
8-in polypropylene-graphite woofer, 2½-in polypropylene midrange, and ¾-in polypropylene-dome tweeter. Power handling 100 W rms; crossover point 3.5 kHz; FR 38 Hz-22 kHz; sens 90 dB; imp 8 ohms. 3-yr parts-and-labor warranty $349/pr

M-80 2-Way In-Wall Speaker
8-in polypropylene-graphite woofer and 1-in polypropylene-dome tweeter. Power handling 100 W rms; crossover point 3.5 kHz; FR 40 Hz-22 kHz; sens 90 dB; imp 8 ohms. 3-yr parts-and-labor warranty $299/pr
M-60. As above, power handling 80 W rms; FR 50 Hz-22 kHz $249/pr

M-50 2-Way Ceiling Speaker. 5¼-in polypropylene-graphite woofer and ½-in polypropylene-dome tweeter. Power handling 60 W rms; crossover point 5 kHz; FR 60 Hz-21 kHz; sens 90 dB; imp 8 ohms. 3-yr parts-and-labor warranty $199/pr
M-SR5. As above, 8½-in polycarbonate-cone woofer; FR 55 Hz-21 kHz. Round frame. Mounting diameter 9 in $225/pr
M-5R5. As above, 5-in polycarbonate-cone woofer. FR 85 Hz-21 kHz. Mounting diameter 8 in . .$169/pr

Concept-5 2-Way In-Wall Speaker
6-in polycarbonate-cone woofer and ½-in polypropylene-dome tweeter. Power handling 50 W rms; crossover point 5 kHz; FR 62 Hz-20 kHz; sens 90 dB; imp 8 ohms $159/pr

BOSE

Direct/Reflecting refers to a proprietary design in which drivers are positioned to provide both direct and reflected sound.

Lifestyle 30 Home Theater System
6-speaker system with Acoustimass bass module with two 5¼-in drivers; five dual-cube satellites, each with 2-in drivers; music center with 6-disc CD changer, AM/FM tuner, and two-zone preamp. Videostage steering logic provides 2- and 3- channel stereo and 5-speaker surround sound; active electronic EQ; auto tone adjustment; magnetic shielding; patented bass-response enhancement circuitry. RF remote control. Includes setup CD, AM/FM antennas, system and speaker cables. Subwoofer and speakers available in black or white, music center in brushed aluminum. Music center: 15½ x 2⅝ x 8 in; 6 lb. Bass module: 23⅜ x 14 x 7½ in; 33 lb. Satellite: 4½ x 2¼ x 3¼ in; 1 lb . . .$3,500
Lifestyle 8. As above with single CD player and five single-cube satellites. Music center: 15 x 2⅝ x 7¾ in; 4 lb. Bass module: 20¼ x 14 x 7½ in; 28 lb. Satellite: 3 x 3⅛ x 4¾ in; 1 lb $1,500

Lifestyle 25 Powered Home Theater System
Complete system with 6-disc CD changer; AM/FM tuner with 50 presets; subwoofer with two 5¼-in drivers; five dual-cube satellites with one magnetically-shielded 2½-in wide-range driver per cube. Amp rated at 80 W x 1 (subwoofer) + 40 x 5 (satellites); Videostage surround decoding circuitry; two-zone expansion capability. RF remote control. Brushed aluminum CD/tuner module; subwoofer and satellites available in black or white. Subwoofer: 23⅜ x 14 x 7½ in. Satellite: 3 x 6¼ x 4¾ in . . .$2,600

Lifestyle 12 Powered Home Theater System
Complete system with CD player; AM/FM tuner with 20 presets; amp rated at 80 W x 1 (subwoofer) + 40 x 5 (satellites); subwoofer with two 5¼-in drivers; 5 dual-cube satellites with 1 magnetically shielded 2½-in wide-range driver per cube. Videostage surround decoding circuitry. RF remote control. Black veneer subwoofer, black or white satellites. Subwoofer 7½ x 23 x 14 in. Satellite 3 x 6¼ x 4¾ in $2,200

Model 901 Classic Series VI Speaker System
2 speakers, each with nine 4½-in drivers; outboard active EQ. Direct/Reflecting design; 1 front-firing driver, 4 drivers on each of 2 angled rear baffles; injection-molded enclosure. Bass and treble controls. Power handling 450 W/ch; imp 4 or 8 ohms. Hardwood veneer with black-ash or walnut finish. 5-yr transferable warranty. 12¾ x 21 x 12¾ in; 32 lb $1,499

Model 701 3-Way Speaker
Two 8-in woofers, one 6½-in side-firing midrange, and two 2¼-in ferrofluid-cooled tweeters. Direct/Reflecting design; 2 tuned ports; multiple-chamber bass enclosure with 3 acoustic masses; tweeters spaced and angled to enhance imaging; protection circuit. Power handling 400 W; imp 4 or 8 ohms. Black ash vinyl finish. 5-yr transferable warranty. 10½ x 32½ x 12½ in; 28 lb $899/pr

Model 501 Series V 2-Way Speaker
One 5¼-in woofer and two 2½-in tweeters. Direct/Reflecting design; multiple-chamber bass enclosure with 3 acoustic masses; two tuned ports; protection circuit. Magnetic tweeter shielding. Power handling 200 W; imp 4 or 8 ohms. Black ash vinyl finish. 7⅝ x 31 x 7⅝ in; 20 lb $599/pr

VCS-30 Center/Surround System
3-piece system with one VCS-10 center-channel speaker and two surround speakers, each with one 4½-in full-range driver. Proprietary system to improve dialog coverage; magnetic shielding. Electronic-protection circuitry. Includes mounting brackets and hardware; rubber feet; speaker wire. Power handling 100 W front channel, 80 W surround channel; imp 4 or 8 ohms. Black polypropylene. 5-yr limited warranty. Center-channel: 21½ x 6 x 3¼-in; 6 lb. Surround: 11 x 5¾ x 6½-in; 3 lb $399

Model 301 Series IV 2-Way Bookshelf Speaker
8-in woofer, 3-in tweeter, and 2-in tweeter. Direct/Reflecting design; rear-firing tweeter to create reflections off side wall; 2nd tweeter aimed inward; flared port; multiple frequency crossover. Power handling 150 W; imp 4 or 8 ohms. Black or rosewood finish. 17 x 16⅝ x 10¼ in; 12 lb $369/pr

RoomMate II Powered Speaker
4½-in driver. Integral amp; aerodynamically-tuned port; distortion-limiting circuitry; polypropylene cabinet; AC power plug. Active EQ; portable. Carrying case with rechargeable-battery pack for 12-hr play on one charge, cigarette-lighter adapter, and mounting accessories optional. 9½ x 6½ x 6½ in; 4 lb $339

Model 151 Outdoor Speaker
4½-in Kevlar-cone driver. Resists heat, cold, moisture, and salt; stainless-steel hardware; aluminum grille. Power handling 80 W; imp 4 or 8 ohms. Black or white finish. 5-yr transferable warranty. 9 x 6 x 6 in; 4 lb $299/pr

Model 201 Series IV 2-Way Bookshelf Speaker
6½-in slot-loaded forward-firing woofer and 2-in ferrofluid-cooled tweeter. Direct/Reflecting design; tweeter lens to widen soundstage; flared slot port; dual-frequency crossover. Power handling 120 W; imp 4 or 8 ohms. Black or rosewood finish. 14½ x 7¾ x 9 in; 11 lb $229/pr

VCS-10 2-Way Center-Channel Speaker
Bass-reflex design with two 2½-in drivers and two 2½-in compound-loaded drivers in a dual chambered enclosure. Magnetic shielding. Electronic-protection circuitry. Includes rubber feet. Power

See Bob Rock.

The new Sunfire *True Subwoofer* by Bob Carver has received reviews that are redefining the subwoofer industry.

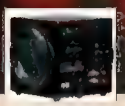
There has never been a subwoofer like it!

There will never be a subwoofer like it!*

It's a small eleven inch square bass cube, and it shakes the walls and rattles the rafters. It has its own built-in two thousand, seven hundred watt amp!

Trust Bob.
It Rocks!

SUB REVIEWS



"The True Subwoofer is an achievement on par with the space shuttle and the twinkie."
–Al Griffin
Home Theater, Feb, 97

"Talk about floor shaking bass...turned up to maximum level, I don't think there was anything in the house that wasn't shaking, including the concrete foundation!"

"*Don't,* I repeat, *don't* even think about purchasing another subwoofer without giving the Astonishing True subwoofer a listen"
–Joseph M. Cierniak
The Sensible Sound, Issue # 60

"The lowest, flattest, deepest bass I have *EVER* heard or measured."
–Julian Hirsh
Stereo Review, Dec. 96

*Strictly speaking: for 20 years or until patent expires.

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For additional information on Sunfire, call or write to Sunfire Corporation, PO Box 1589, Snohomish, WA 98290 • (206) 335-4748 • Distributed in Canada by Korban Trading. • Bob Carver is no longer affiliated with Carver Corporation. • Tech Notes: Flat to 18 hertz. Powered by 2700 watts.

handling 100 W/ch; imp 4 or 8 ohms. Black polypropylene. 5-yr limited warranty. 21½ x 3¼ x 6 in; 6 lb $229

MediaMate Powered Computer Speaker
2½-in driver. Thermoplastic-alloy enclosure. Dual-source input; headphone jack. Magnetic shielding; source-mixing capability; volume control. Includes fastener strips for mounting to side of computer monitor. Gray. 7⅜ x 3⅜ x 8⅜ in; 4 lb $219/pr

Model 100 Bookshelf Speaker
4½-in mica-impregnated cone driver. Includes wall-mounting hardware. Power handling 80 W; imp 8 ohms. Black or white. 5-yr transferable warranty. 11 x 6 x 6 in; 4 lb $199/pr

Model 141 Bookshelf Speaker
4½-in driver. Power handling 80 W; imp 4 or 8 ohms. Gray. 5-yr limited transferable warranty. 10 x 6 x 6½ in; 4 lb $139/pr

Acoustimass Systems
Acoustimass 15 Home Theater System
6-piece system with powered subwoofer with two 5¼-in long-throw drivers; 5 dual-cube rotating-speaker arrays, each cube with one 2½-in driver. Direct/Reflecting design; magnetic shielding. Floor stands, table stands, and wall brackets optional. Power handling 200 W; imp 4 or 8 ohms. Black or white $1,399

Acoustimass 10 Series II Home Theater System
6-speaker system with subwoofer with three 5¼-in dual voice-coil drivers; 5 dual-cube magnetically-shielded rotating-speaker arrays, each cube with one 2½-in driver. Direct/Reflecting design. Floor stands, table stands, and wall brackets optional. Power handling 200 W front, imp 4 or 8 ohms. Black or white. 5-yr limited transferable warranty. Subwoofer: 22 x 14 x 7½ in. Satellite 3 x 6¼ x 4 in $1,099

Acoustimass 6 Home Theater System
6-piece system with subwoofer with two 5¼-in low-frequency drivers; five matched surround cube speakers, each with one 2½-in wide-range driver. Proprietary speaker design for front and surround channel; auto protection circuitry; magnetic shielding. Banded cables and color-coded connectors with all cables preconnected to subwoofer. Power handling 100 W/ch; imp 4 or 8 ohms. Black or white. 5-yr limited transferable warranty $699

Acoustimass 5 Series III Subwoofer/Satellite System
3-speaker with featuring subwoofer with two 5¼-in dual voice-coil drivers; two dual-cube magnetically-shielded rotating-speaker arrays, each cube with one 2½-in driver. Direct/Reflection design. Floor stands, table stands, and wall brackets optional. Power handling 200 W; imp 4 or 8 ohms. Black or white finish. 5-yr limited transferable warranty. Acoustimass module: 19 x 14 x 7½ in. Satellite: 3 x 6¼ x 4 in $699

Acoustimass Multimedia Subwoofer/Satellite System
Designed for multimedia computers. 3-speaker system with subwoofer with 5¼-in driver; two magnetically-shielded satellites, each with 2½-in driver. System-protection circuitry. Dual inputs. Volume control. Includes mono and stereo mini-plug adapters. Power handling 50 W subwoofer, 25 W satellite. Black-satin vinyl subwoofer finish; platinum-painted polymer satellites. Subwoofer: 18½ x 7½ x 8½ in. Satellite: 3 x 3 x 4¾ in $599

Acoustimass 3 Subwoofer/Satellite System
3-speaker system with subwoofer with 5¼-in driver; two magnetically-shielded satellites, each with one 2½-in driver. System protection circuit; two acoustic-compression subwoofer chambers. Mounting accessories optional. Power handling 100 W/ch; imp 4 or 8 ohms. Black- or white-satin subwoofer finish; black- or white-polymer satellite finish. Subwoofer: 14¼ x 7½ x 8 in; 11 lb. Satellite: 3 x 3 x 4¾ in; 1 lb $469

BOSTON ACOUSTICS

Boston SoundBar Cinema Powered Home Theater System
Integrated system with TV-top SoundBar module housing three front speakers, 5-channel amp, Dolby Pro Logic decoder, and control panel. Includes separate bass module, wall-mountable surround speaker, and universal remote control. FR 45 Hz-20 kHz ±3 dB system. Black. SoundBar 25¼ x 4¾ x 5¾ in. Bass module: 6⅞ x 9⅜ x 14½ in. Surround speaker: 4⅞ x 7⅜ x 5⅜ in $800

Boston DigitalTheater 6000 Home Theater System
6-speaker system with subwoofer with 6½-in woofer; center-channel speaker with infrared receiver; front and surround satellite speakers, each with 3½-in full-range driver; Dolby Pro Logic decoder. LED power indicators; remote control. FR 50 Hz-20 kHz ±3 dB system. Gray finish. Subwoofer: 11¾ x 7 x 14⅝ in. Center: 4¼ x 6⅜ x 4½ in. Satellites: 4½ x 4⅛ x 4¾ in $600

BA635 Subwoofer/Satellite System
3-speaker system with subwoofer with 4½-in driver in bandpass enclosure; two satellite speakers, each with proprietary 2-in wide-range driver. Line-level input; headphone jacks. Master volume control under satellites. Includes pedestal desk stands. FR 50 Hz-20 kHz ±3 dB system. Black or gray finish. Subwoofer: 7¾ x 6 x 6¾ in. Satellites: 2⅝ x 2¾ x 2¼ in $100

Home THX Series
VR2000 THX Powered Subwoofer
Bass-reflex design with 12-in woofer; 350-W amp. Fixed THX input; Dolby Pro Logic variable with 24-dB/oct low-pass filter adjustable from 40-100 Hz. Line- and speaker-level inputs. Auto turn-on/off; polarity switch. FR 21-100 Hz ±3 dB. Black ash vinyl finish. 18 x 18¼ x 21 in; 73 lb $1,200

VR35 3-Way THX Speaker
Two 6½-in woofers, two sub-enclosed 2½-in midranges, and one 1-in aluminum-dome tweeter. Braced cabinet; point-source mounting configuration; magnetic shielding. Power handling 250 W; FR 65 Hz-20 kHz ±3 dB; sens 91 dB; imp 8 ohms. Black ash vinyl. 38½ x 8¼ x 10 in $650
VR14. As above. 8¾ x 25 x 10⅝ in $600

VRS Pro 2-Way THX Surround Speaker
Diffuse-field design with one 5¼-in woofer and two 2½-in tweeters. Includes wall/ceiling bracket. Power handling 150 W; FR 80 Hz-20 kHz ±3 dB; sens 86 dB; imp 8 ohms. Black or white. 14¼ x 4½ x 6½ in; 8 lb $500/pr

Micro Reference Series
Micro System 9000 Home Theater System
6-speaker system with powered subwoofer with 8-in woofer and 75-W amp; center speaker with two 3½-in midranges and 1-in aluminum-dome tweeter; 2 front speakers, each with 3½-in midrange and 1-in aluminum-dome tweeter; 2 VRS Micro surround speakers. Die-cast aluminum satellite and center cabinets; magnetic shielding. Includes satellite and surround wall-mount brackets. FR 35 Hz-20 kHz ±3 dB system. Black or white $1,100
Micro90. As above without center-channel speaker or surrounds $800

Micro80 Subwoofer/Satellite System
3-speaker system with subwoofer with 7-in dual voice-coil driver in dual-chamber bandpass enclosure; 2 satellites, each with 3½-in midrange and ¾-in dome tweeter. Magnetic shielding on all speakers. Includes satellite wall-mount brackets. Power handling 125 W; FR 46 Hz-20 kHz ±3 dB system; sens 89 dB; imp 8 ohms. Black or white. Subwoofer: 18⅝ x 10 x 10. Satellite: 6⅞ x 4 ¼ x 5¾ . . .$400

Micro90c 2-Way Center-Channel Speaker
Two 3½-in woofers and one 1-in aluminum-dome tweeter. Point-source driver mounting; die-cast aluminum cabinet; magnetic shielding. Power handling 125 W; FR 100 Hz-20 kHz ±3 dB; sens 90 dB; imp 8 ohms. Black. 4¾ x 12 x 5¼ in $250
Micro90x. As above, but designed for use as center or surround speaker. Includes wall-mount brackets. FR 120 Hz-20 kHz ±3 dB; sens 89 dB. 6⅞ x 4¼ x 5¾ in $200

VRS Micro 2-Way Surround Speaker
3½-in woofer and 2½-in tweeter. Includes wall-mount bracket. Power handling 100 W; FR 120 Hz-20 kHz ±3 dB; sens 85 dB; imp 8 ohms. Black or white. 7⅝ x 3⅞ x 5⅜ in $200/pr

Micro80x 2-Way Surround/Center Speaker
3½-in woofer and ¾-in tweeter. Point-source driver mounting for uniform dispersion; magnetic shielding. Includes wall-mount brackets. Power handling 125 W; FR 120 Hz-20 kHz ±3 dB; sens 89 dB; imp 8 ohms. Black. 6⅞ x 4¼ x 5¾ in $100

Lynnfield VR Series
The following use a patented amplitude modification device designed to improve response past 25 kHz.

VR970 3-Way Speaker/Powered Subwoofer
Built-in powered subwoofer with 10-in driver, 12-in passive radiator, and 100-W amp; speaker section with two 4½-in midranges and one 1-in aluminum tweeter. Braced cabinet; point-source driver configuration; magnetic shielding. FR 25 Hz-20 kHz ±3 dB; sens 91 dB; imp 8 ohms. Black cloth with gloss-black cap. 6½ x 48¼ x 15 in $800/pr
VR960. As above, subwoofer section with 8-in driver and 75-W amp; 4½-in midrange and 1-in aluminum tweeter. FR 29 Hz-20 kHz ±3 dB; sens 90 dB. 6½ x 42¼ x 14 in $500/pr

VR500 Powered Subwoofer
Bass-reflex design with 10-in woofer; 100-W amp. Overload protection; 24-dB/oct low-pass filter. Line- and speaker-level inputs. Auto turn-on/off; polarity switch. Crossover point variable from 50-100 Hz; FR 27 Hz-100 Hz ±3 dB. Black ash vinyl finish. 15¾ x 15½ x 18⅝ in; 40 lb $600

VR12 3-Way Center-Channel Speaker
Two 6½-in woofers, one 4½-in midrange, and one 1-in aluminum tweeter. Braced cabinet; point-source driver configuration; magnetic shielding. Power handling 250 W; FR 58 Hz-20 kHz ±3 dB; sens 91 dB; imp 8 ohms. Black ash vinyl finish. 8¾ x 25 x 8½ in; 30 lb $400

VR950 2-Way Speaker
Dual 5¼-in woofers and one 1-in aluminum tweeter. Braced cabinet; point-source mounting configuration; magnetic shielding. Power handling 125 W; FR 45 Hz-20 kHz ±3 dB; sens 90 dB; imp 8 ohms. Black cloth with gloss black cap. 6½ x 38¼ x 12 in $350

VRS 2-Way Surround Speaker
Diffuse-field design with one 4½-in woofer and two 2½-in drivers. Includes wall/ceiling bracket. Power handling 100 W; FR 95 Hz-20 kHz ±3 dB; sens 85 dB; imp 8 ohms. Black or white. 10⅝ x 4½ x 6 in; 6 lb $350/pr

VR10 3-Way Center-Channel Speaker
5¼-in woofer, 5¼-in passive radiator, 3½-in midrange, and 1-in aluminum tweeter. Point-source driver configuration; magnetic shielding. Power handling 150 W; FR 65 Hz-20 kHz ±3 dB; sens 90 dB; imp 8 ohms. Black ash vinyl finish. 6½ x 17 x 6⅞ in; 15 lb $300

VR940 2-Way Speaker
5¼-woofer and 1-in aluminum tweeter. Braced cabinet; point-source mounting configuration; magnetic shielding. Power handling 125 W; FR 51 Hz-20 kHz ±3 dB; sens 90 dB; imp 8 ohms. Black cloth with gloss black cap. 6½ x 34¼ x 9¾ in .$250

Reaching beyond benchmarks.

Again and again reviewers rate the performance of the PSB Stratus Series equal to that of loudspeakers many times their price - an out of this world value.

How has PSB attained these standards? Through a strict design process headed by Paul Barton, PSB's founder and chief designer. The "exceptional value and rare musicality" that critics have cited in all PSB speakers is the result of careful engineering, years of research and a background in music. The Stratus Series represents PSB's finest offering for both music and movie lovers alike.

"The midrange was clean and uncolored, the stereo imaging well defined and stable, and the bass generous without being boomy....This is one fine design....The Gold[i] is going to put a serious crimp in the sales of its more expensive competitors. Enthusiastically recommended."
John Atkinson, *Stereophile*, Vol.20 No.10

psb
SPEAKERS

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Designer In-Wall Speaker Series
The following are designed for flush mounting in walls or ceilings, have a paintable matte-white finish, and include mounting hardware. New-construction brackets are also available.

Model 522 2-Way In-Wall Speaker
Diffuse-field design with one 5¼-in woofer and two 2½-in tweeters. Includes retrofit mounting bracket. Power handling 150 W; FR 80 Hz-20 kHz ±3 dB; sens 86 dB; imp 8 ohms. Paintable grille. Rectangular frame. Mounting area: 7¼ x 14⅛ in. Mounting depth 3¾ in $500/pr

Model 381 2-Way In-Wall Speaker
8-in copolymer woofer and 1-in ferrofluid-cooled tweeter. Point-source driver configuration; moisture-resistant design. Includes retrofit mounting bracket. Power handling 100 W; FR 48 Hz-20 kHz ±3 dB; sens 90 dB; imp 8 ohms. 12⅝ x 9⅝ x 3¼ in $500/pr

Model 336PT 2-Way Ceiling Speaker
6-in composite-polymer woofer and ¾-in pivoting tweeter. Includes mounting hardware. Power handling 75 W; FR 62 Hz-20 kHz ±3 dB. Paintable grille. Round frame. Mounting diameter 6¾ in. Mounting depth 3¾ in $400/pr

Model 351 2-Way In-Wall Speaker 5¼-in copolymer woofer and 1-in ferrofluid-cooled tweeter. Point-source driver configuration; moisture-resistant design. Includes retrofit mounting bracket. Power handling 100 W; FR 65 Hz-20 kHz ±3 dB; sens 89 dB; imp 8 ohms. 9½ x 6¾ x 2⅝ in .$300/pr
Model 361. As above, 6½-in copolymer woofer. FR 58 Hz-20 kHz ±3 dB. Paintable grille. 10⅝ x 7¾ x 2⅞ in $400/pr

Model 335 2-Way Ceiling Speaker
5¼-in copolymer woofer and ¾-in dome tweeter. Includes white perforated-metal grille and black recessed-lighting grille. Power handling 50 W; FR 68 Hz-20 kHz ±2 dB. White. Round frame. Mounting diameter 6¾ in. Mounting depth 3¾in $250/pr

Model 325 2-Way In-Wall Speaker
5¼-in copolymer woofer and ¾-in dome tweeter. Power handling 25 W rms; sens 90 dB; imp 4 ohms. 5¾ x 5¾ x 2⅛ in $200/pr

Model 305 In-Wall Speaker
5¼-in dual-cone driver. Power handling 50 W rms; FR 70 Hz-16 kHz ±3 dB; sens 90 dB; imp 8 ohms. Matte-white finish $130/pr

Compact Reference Series
CR9 2-Way Speaker
Vented braced design with 8-in copolymer woofer and 1-in ferrofluid-cooled tweeter. Point-source driver configuration; magnetic shielding. Power handling 150 W; FR 42 Hz-20 kHz ±3 dB; sens 90 dB; imp 8 ohms. Black ash vinyl or woodgrain vinyl finish. 19½ x 9¾ x 11⅞ in; 21 lb $420/pr

CR400 Powered Subwoofer
Bass-reflex design with 8-in woofer; 75-W amp. 24 dB/oct low-pass filter adjustable from 50-150 Hz. Line- and speaker-level inputs. Auto turn-on/off; polarity switch. Black ash vinyl finish. 13½ x 14 x 16 in; 43 lb $400

CR8 2-Way Bookshelf Speaker
Bass-reflex design with 7-in copolymer woofer and 1-in ferrofluid-cooled tweeter. Point-source driver configuration; braced cabinet; magnetic shielding. Power handling 125 W; FR 48 Hz-20 kHz ±3 dB; sens 90 dB; imp 8 ohms. Black ash vinyl finish. 15 x 8½ x 10½ in; 16 lb $340/pr

CR7 2-Way Bookshelf Speaker
Bass-reflex design with 6½-in copolymer woofer and ¾-in ferrofluid-cooled tweeter. Point-source driver configuration; braced cabinet; magnetic shielding. Wall mountable. Power handling 100 W; FR 52 Hz-20 kHz ±3 dB; sens 88 dB; imp 8 ohms. Black ash vinyl finish. 12¼ x 7½ x 9⅛ in; 11 lb $260/pr
CR6. As above, 5¼-in copolymer woofer. FR 65 Hz-20 kHz ±3 dB. Black ash, woodgrain, or white vinyl finish. 10⅛ x 5⅞ x 7⅞ in; 8 lb $200/pr

CR2 2-Way Center-Channel Speaker
4½-in copolymer woofer, 4½-in passive radiator, and 1-in ferrofluid-cooled tweeter. Enclosure bracing; magnetic shielding. Power handling 100 W; FR 80 Hz-20 kHz ±3 dB; sens 90 dB; imp 8 ohms. Black. 5⅜ x 15 x 5⅜ in; 6 lb $200

CR5 2-Way Bookshelf Speaker
Acoustic-suspension design with 4½-in copolymer woofer and ¾-in ferrofluid-cooled tweeter. Point-source driver configuration. Wall-mountable. Power handling 75 W; FR 80 Hz-20 kHz; sens 90 dB; imp 8 ohms. Black ash or white vinyl finish. 9¼ x 5½ x 5⅝ in; 5 lb $150/pr

CR1 2-Way Center-Channel Speaker
4½-in copolymer woofer and ¾-in ferrofluid-cooled tweeter. Enclosure bracing; magnetic shielding. Power handling 100 W; FR 95 Hz-20 kHz ±3 dB; sens 90 dB; imp 8 ohms. Black. 5⅜ x 12¾ x 5⅜ in; 6 lb $130

CR4 Bookshelf Speaker
Acoustic-suspension design with 4½-in copolymer woofer. Power handling 75 W; FR 80 Hz-15 kHz; sens 90 dB; imp 8 ohms. Black ash or white vinyl finish. 9¼ x 5½ x 5⅜ in; 5 lb $120/pr

Indoor/Outdoor Series
Voyager 2-Way Outdoor Speaker
5¼-in copolymer woofer and 1-in ferrofluid-cooled soft-dome tweeter. Lexan cabinet. Includes stainless-steel mounting bracket. Power handling 125 W; crossover point 3 kHz; FR 65 Hz-20 kHz ±3 dB; sens 89 dB; imp 8 ohms. Paintable white finish. 10½ x 6½ x 6¾ in; 6 lb $400/pr

RunAbout II 2-Way Outdoor Speaker
4½-in copolymer woofer and ¾-in soft-dome tweeter. Polypropylene cabinet. Includes mounting bracket. Power handling 100 W; crossover point 3 kHz; FR 80 Hz-20 kHz ±3 dB; sens 89 dB; imp 8 ohms. 8¾ x 5⅞ x 6⅛ in; 6 lb $250/pr

RunAbout I Outdoor Speaker
4½-in full-range copolymer driver. Polypropylene cabinet. Includes brackets. Power handling 75 W; FR 80 Hz-15 kHz ±3 dB; sens 89 dB; imp 8 ohms. 8¾ x 5⅞ x 6⅛ in; 6 lb $200/pr

Desktop Audio Series
MicroMedia Powered Subwoofer/Satellite System
3-speaker system featuring subwoofer with 5¼-in woofer in bandpass enclosure; two satellites, each with proprietary wide-range 2½-in drivers. Master volume control mounts under satellite. Includes pedestal stands. FR 50 Hz-20 kHz ±3 dB system. Black or gray finish $200

BOZAK

Classic Series
The following are available finished in dark, light, black, or white oak satin hardwood.

Grand 3-Way Speaker
Patented Acoustic-isolation design with four 6-in polypropylene woofers, two 5-in polypropylene midranges, one 1-in titanium-dome tweeter, and two 12-in passive radiators. Biampable terminals. Power handling 40-400 W; crossover points 200 Hz and 2 kHz; FR 28 Hz-20 kHz +1, –2 dB; sens 93 dB; imp 8 ohms. 31 x 48 x 16 in; 180 lb .$6,000/pr

Symphony II 3-Way Speaker
Patented Acoustic-isolation design with two 8-in polypropylene woofers, two 5-in polypropylene midranges, one 1-in titanium-dome tweeter, and one 10-in passive radiator. Biampable terminals. Power handling 20-250 W; crossover points 225 Hz and 2 kHz; FR 31 Hz-20 kHz +1, –2 dB; sens 92 dB; imp 6 ohms $4,000/pr

Concerto II 3-Way Speaker
Patented Acoustic-isolation design with two 6-in polypropylene woofers, one 5-in polypropylene midrange, one 1-in aluminum-dome tweeter, and one 10-in passive radiator. Biampable terminals. Power handling 20-200 W; crossover points 250 Hz and 2.5 kHz; FR 35 Hz-20 kHz +1, –2 dB; sens 91 dB; imp 6 ohms $3,000/pr

Rhapsody II 3-Way Speaker
Patented Acoustic-isolation design with 8-in polypropylene woofer, 5-in polypropylene midrange, and 1-in aluminum-dome tweeter. Biampable terminals. Power handling 10-150 W; crossover points 300 Hz and 3 kHz; FR 38 Hz-20 kHz +1, –2 dB; sens 90 dB; imp 8 ohms. 19 x 38 x 12 in; 80 lb $2,000/pr

Sonata 3-Way Speaker
Dual-ported bass-reflex design with 8-in polypropylene woofer, 5-in polypropylene midrange, and 1-in aluminum-dome tweeter. Polygon-shaped enclosure. Stand optional. Power handling 10-150 W; crossover points 300 Hz and 3 kHz; FR 40 Hz-20 kHz +1, –2 dB; sens 90 dB; imp 8 ohms. 19 x 26 x 11 in; 55 lb $1,400/pr

Premiere Series
The following use a tuned-port design and carry a 7-yr warranty.

Model 4 3-Way Speaker
Two 8-in polypropylene-cone woofers and one 1-in chambered aluminum tweeter. 6- and 18-dB/oct crossovers. Biampable terminals. Power handling 30-250 W; crossover points 400 Hz and 1.7 kHz; FR 35 Hz-20 kHz ±2 dB; sens 89 dB; imp 5 ohms. Oak veneer finish. 11⅝ x 42¼ x 15 in .$1,999/pr

Model 3 2-Way Speaker
8-in polypropylene-cone woofer and 1-in chambered textile tweeter. 18-dB/oct crossover. Biampable terminals. Power handling 20-150 W; crossover point 1.7 kHz; FR 40 Hz-20 kHz ±2 dB; sens 88 dB; imp 8 ohms. Black oak finish. 11½ x 36½ x 14 in $899/pr

Model 2 2-Way Speaker
8-in polypropylene-cone woofer and 1-in textile tweeter. 12-dB/oct crossover. Power handling 10-150 W; crossover point 2.2 kHz; FR 45 Hz-18 kHz ±2 dB; sens 89 dB; imp 8 ohms. Black oak finish. 11½ x 23¾ x 14 in $599/pr

Model 1 2-Way Bookshelf Speaker
6½-in treated-paper woofer and 1-in textile tweeter. 12-dB/oct crossover. Power handling 10-100 W; crossover point 2.5 kHz; FR 57 Hz-18 kHz ±2 dB; sens 87 dB; imp 8 ohms. Black oak vinyl finish. 9½ x 15 x 7¾ in $499/pr

Home Theater Series
The following are available in a high-gloss black finish; real-wood finishes are optional.

HT95-FT30 3-Way Speaker
Two 6½-in polypropylene woofers and one 1-in cloth-dome tweeter. Biampable terminals. Power handling 10-150 W; crossover point 2.5 kHz; FR 40 Hz-19 kHz ±2 dB; sens 90 dB; imp 6 ohms. 7-yr warranty. 8¼ x 41 x 14 in $999/pr

HT95-PSW12 Powered Subwoofer
12-in front-firing woofer; amp rated at 150 W rms. Crossover point variable from 40-180 Hz; FR 22-180 Hz +1, –2dB; imp 8 ohms. 7-yr warranty. 17 x 16 x 19 in $999

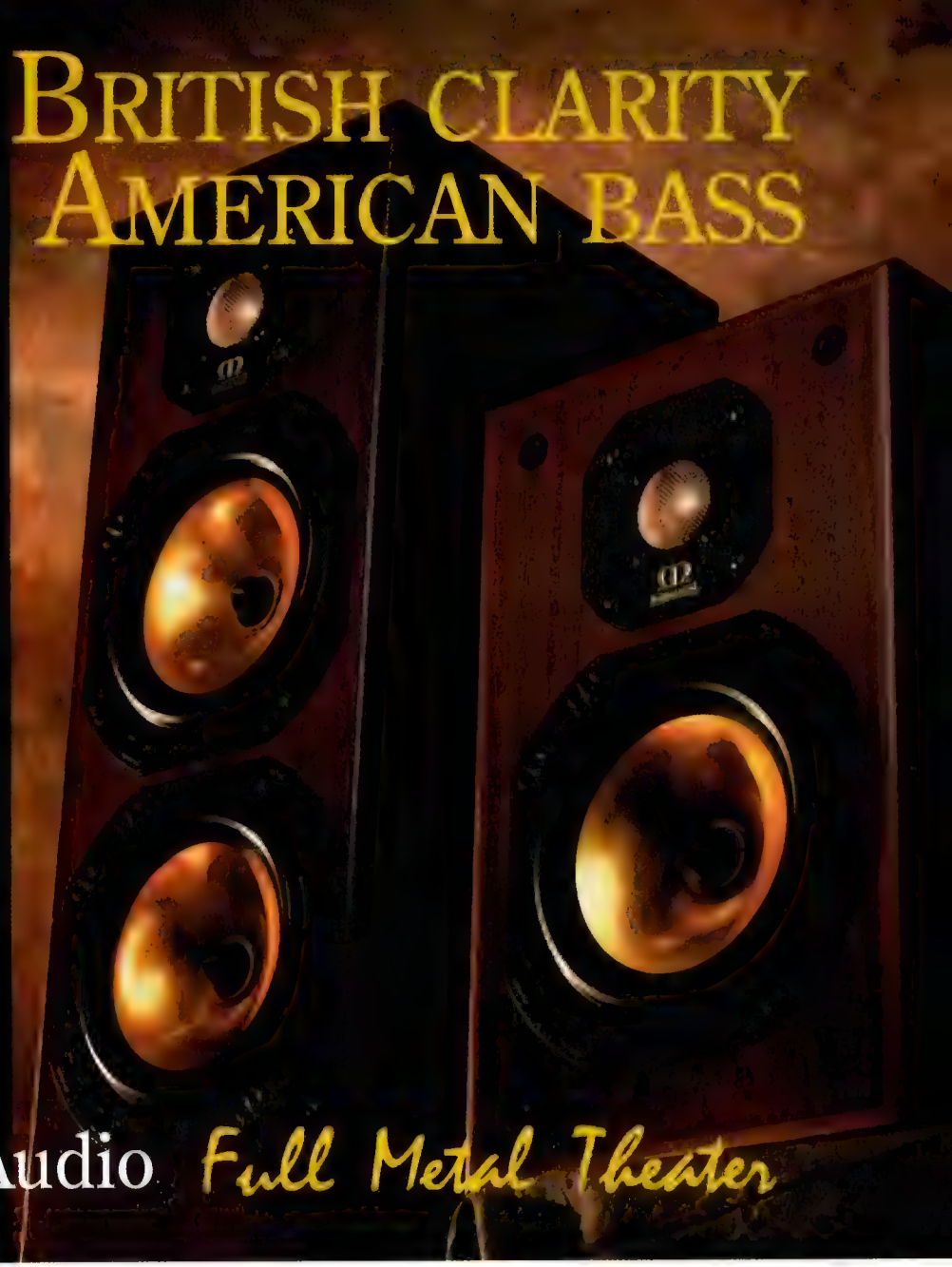
HT95-RC3A 3-Way Surround Speaker
6½-in rear-firing woofer, 4-in side-firing midrange, 4-in rear-firing midrange, and 1-in top-firing dome tweeter. FR 55 Hz-14 kHz ±2 dB; sens 90 dB; imp 6 ohms. 7-yr warranty $899/pr

★★★★★ BRITISH CLARITY AMERICAN BASS

"The imaging was amazing- It Sounds great, it looks great, it's easy to set up... these are coming home with me!"
Brent Butterworth
Home Theater

"A startlingly convincing degree of reality that I've only encountered with some multi-kilobuck speakers such as the Soundlab A-1 & the big Genesis.
Gerald Burt The $ensible Sound

"For listeners who like to bathe in a rich, full-blooded presentation with an incredibly large sound stage that never squeezes music of its elemental vitality, these speakers will satisfy.
Andrew Keen FI



Monitor Audio *Full Metal Theater*

The British designed Monitor Audio *Full Metal Theater* delivers speed and accuracy comparable to the finest electrostatic speaker but without the size. Faint sounds are reproduced effortlessly, even when surrounded by loud explosions. Normal paper or polypropylene drivers can't react as fast, thus, subtle nuances that the director intended to be heard are often lost. The *Full Metal Theater* features our world renowned Aluminum Magnesium alloy drivers. This material yields a light and rigid cone so our system can react to sudden changes without the common distortions found in ordinary speaker systems. When you're ready for resolution... when beauty matters... when your system must reproduce music as well as home theater... you're ready for Monitor Audio.

MONITOR AUDIO

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HT95-CC3 2-Way Center-Channel Speaker
Two 6-in woofers and one 1-in dome tweeter. Magnetic shielding. Power handling 10-150 W; crossover point 2.4 kHz; FR 50 Hz-20 kHz +1, –2 dB; sens 92 dB; imp 5 ohms. 7-yr warranty. 23 x 8 x 11 in $699

HT95-SW12 Subwoofer
Two 12-in polypropylene woofers. 24-dB/oct crossover. Crossover point 90 Hz; FR 22-90 Hz ±2 dB; sens 90 dB; imp 6 ohms. 7-yr warranty. 15 x 32 x 16½ in $699

HT95-CC2 2-Way Center-Channel Speaker
Two 5-in woofers and one ¾-in polypropylene-dome tweeter. Magnetic shielding. Power handling 10-100 W; crossover point 2.4 kHz; FR 50 Hz-20 kHz +1, –2 dB; sens 90 dB; imp 6 ohms. 7-yr warranty. 7 x 19 x 11 in $499
HT95-CC1. As above, crossover point 2.5 kHz; FR 55 Hz-20 kHz +1, –2 dB $399

HT95-RC2A 2-Way Surround Speaker
4-in front-firing woofer, 4-in side-firing woofer, and 3-in top-firing tweeter. Power handling 5-100 W; crossover point 4 kHz; FR 70 Hz-12 kHz ±2 dB; sens 90 dB; imp 16 ohms. 7-yr warranty. 6 x 9½ x 6 in $499/pr

HT95-SW1 Subwoofer
Two 6½-in polypropylene drivers. Crossover point 100 Hz; FR 30-100 Hz ±2 dB; sens 90 dB; imp 6 ohms. 7-yr warranty. 8 x 20 x 12 in $399

HT95-CC.7 2-Way Center-Channel Speaker
4-in polypropylene woofer and ½-in polycarbonate tweeter. Magnetic shielding. Crossover point 3.5 kHz; FR 70 Hz-18 kHz ±2 dB; sens 90 dB; imp 8 ohms. 7-yr warranty. 5 x 10½ x 5 in $249

HT95-F1 2-Way Bookshelf Speaker
4-in polypropylene woofer and ½-in polycarbonate tweeter. Power handling 10-60 W; crossover point 3.5 kHz; FR 70 Hz-18 kHz ±2 dB; sens 90 dB; imp 8 ohms. 5 x 9 x 5 in $249/pr

BRIGHT STAR AUDIO

Altair Reference 4-Way Hybrid Ribbon Speaker
Dipolar design with two 8-in ceramic-coated woofers, two 5-in ceramic-coated midranges, one 1-in ceramic-coated metal-dome front tweeter, and one 1½-in circular-ribbon rear tweeter. Sand-filled cabinet; four 2½-in steel spikes. Wood side panels optional. Power handling 500 W; FR 28 Hz-22 kHz; imp 5.5 ohms. 49 x 14¼ x 18 in $6,000/pr

Altair Pro 4-Way Hybrid Ribbon Speaker
Dipolar design with 10-in carbon-polypropylene woofer, 5-in open-back ceramic-coated dipole midrange, 1-in ferrofluid-cooled ceramic-coated aluminum front tweeter, and 1½-in circular-ribbon rear tweeter. Minimum-diffraction ceramic-damped cabinet; tapered/slanted front baffle. Dual gold-plated inputs. Power handling 450 W; FR 32 Hz-21 kHz; imp 4 ohms. Natural-granite finish; other finishes available $2,550/pr

CADAWAS ACOUSTICS

TC-1 3-Way Speaker
10-in woofer, 5½-in Kevlar midrange, 1-in soft-dome tweeter, and 8-in auto damper. Proprietary zero phase-error crossover network. 5-way binding-post. 0, –2, –4, treble and midrange controls. Crossover points 350 Hz and 2.5 kHz; FR 20 Hz-20 kHz; sens 90 dB; imp 8 ohms. 5-yr warranty. 12 x 42 x 12¾ in; 60 lb $3,000/pr

Mobile Monitor One B 2-Way Bookshelf Speaker
8-in woofer, 1-in soft-dome tweeter, and 5-in auto damper. Fuse protection. 3-position toggle-switch treble control. Crossover point 2.5 kHz; sens 90 dB; imp 8 ohms. Black-gloss laminate finish. 9¼ x 15⅞ x 12 in; 20 lb $2,000/pr

TC-2 Subwoofer
12-in woofer and 8-in auto damper. 12-dB/oct filter; fuse protection. 3-position attenuator switch; phase switch. Crossover point 100 Hz; sens 87 dB; imp 8 ohms. Black-gloss laminate finish. 14½ x 24¾ x 11 in; 45 lb $2,000/pr

CAMBRIDGE PHYSICS

The following carry a 5-year warranty.

K Series
K-66/2 3-Way Speaker
Two 8-in polypropylene-cone woofers, one 3-in dome midrange, and one 1-in ferrofluid-cooled dome tweeter. 24-dB/oct crossover; oak enclosure. Crossover points 450 Hz and 4 kHz; FR 26 Hz-22.5 kHz; sens 92.5 dB. Black grille with faceted front panel. 18 x 44 x 12 in; 90 lb $1,200

K-55/2 3-Way Speaker
8-in polypropylene woofer, 4-in polypropylene midrange, and 1-in ferrofluid-cooled soft-dome tweeter. 18-dB/oct crossover; oak enclosure. FR 40 Hz-20 kHz; sens 90 dB; imp 6 ohms. Available in oak or black finish; faceted front panel. 10 x 32 x 10 in; 40 lb $700/pr

K-33/2 2-Way Speaker
10-in polypropylene-cone woofer, 8-in polypropylene-cone woofer, and 1-in ferrofluid-cooled dome tweeter. 18-dB/oct crossover; oak enclosure. Crossover point 1.5 kHz; FR 36 Hz-22.5 kHz; sens 91 dB; imp 6 ohms. Faceted front panel. 16 x 29½ x 9 in; 34 lb $600/pr

K-11/2 2-Way Speaker
8-in polypropylene-cone woofer and 1-in ferrofluid-cooled dome tweeter. 12-dB/oct crossover. Power handling 100 W cont; crossover point 1.5 kHz; FR 44 Hz-22.5 kHz; sens 90 dB; imp 6 ohms. Oak-vinyl finish with faceted front panel. 12 x 19½ x 8½ in; 20 lb $450/pr

K-7/2 2-Way Bookshelf Speaker
6½-in polypropylene-cone woofer and ¾-in ferrofluid-cooled metal-dome tweeter. 12-dB/oct crossover. Power handling 60 W cont; sens 90 dB; imp 6 ohms. Oak-vinyl enclosure with faceted front panel. 12 x 16 x 6 in; 15 lb $330/pr

G Series
The following have an 8-in long-throw woofer and vinyl enclosures with a birch finish and black grille.

G-30 2-Way Speaker
10-in passive radiator, and 1-in ferrofluid-cooled inverted-dome tweeter. 18-dB/oct crossover. Power handling 220 W; crossover point 1.8 kHz; FR 32 Hz-22 kHz ±3 dB; sens 92 dB; imp 6 ohms. 16 x 31 x 10½ in $825/pr
G-20. as above, 12-dB/oct crossover. Power handling 150 W; crossover point 2.2 kHz; FR 34 Hz-22 kHz ±3 dB. 14 x 24½ x 11 in $700/pr

G-10 2-Way Speaker
1-in ferrofluid-cooled inverted-dome tweeter. Power handling 100 W; crossover point 2.2 kHz; FR 38 Hz-20 kHz ±3 dB; sens 91 dB; imp 6 ohms. 11¼ x 20 x 10½ in; 34 lb $420/pr
G-1. As above, vinyl enclosure. Power handling 80 W; FR 40 Hz-20 kHz ±3 dB; sens 90 dB. 10½ x 19 x 8½ in; 28 lb $350/pr

CAMBRIDGE SOUNDWORKS

Movieworks 5.1 Home Theater System
6-speaker system featuring 150-W powered subwoofer with 12-in long-throw woofer; left and right main speakers, each with 1¾-in direct radiating tweeter and 3-in long throw midrange; center-channel speaker with two 5¼-in midrange drives and one 1¾ direct radiating tweeter; left and right surrounds, each with one 4-in woofer and two 2-in tweeters. Magnetic shielding. Surround speakers operate in dipole or bipole modes. Black. 7-yr warranty on front, center, and surround speakers, 2 yr on subwoofer. Main: 8¼ x 5¼ x 4¼ in. Center: 25 x 11 x 6¼ in. Subwoofer: 26¾ x 15½ x 11 in. Surround: 8 x 5 x 6 in $1,799

MovieWorks II 5.1 Home Theater System
6-speaker system featuring 70-W powered subwoofer with 10-in long-throw woofer; left and right main speakers, each with 1¾-in direct-radiating tweeter and 3-in long-throw midrange; center speaker with two 3-in midranges and one 1¾-in direct-radiating tweeter; two surround speakers, each with two 3-in midranges and one 1¾-in direct-radiating tweeter. Acoustic-suspension design for each speaker. Line- and speaker-level inputs; banana-plug jacks. Dipole/bipole selector switch for satellites; standby mode with LED indicator; phase switch; volume control. Crossover point selectable at 120 Hz. Charcoal gray Nextel finish. 10-yr speaker, 2-yr subwoofer warranty. Subwoofer: 14 x 14 x 14 in. Front: 8¼ x 5¼ x 4¼ in. Center: 14 x 4 x 7 in. Satellite: 7 x 5 x 5 in $1,299

Model Twelve Transportable Subwoofer/ Satellite System
3-speaker system featuring powered subwoofer; 2 satellite speakers in a suitcase that fits under airline seat. Space inside suitcase for portable CD or cassette player. Includes 12-VDC cigarette-lighter adapter $799
100-230-V AC adapter for above $99

Tower 3-Way Bipolar Speaker
Bipolar bass-reflex design with two 8-in polypropylene woofers and two front- and rear-firing driver complements, each with 5¼-in polypropylene midrange and 1-in soft-dome tweeter. Magnetic shielding. Biampable terminals. Power handling 30 W min, 250 W max. Lacquered walnut or black-ash wood veneer finish with black-knit grille. 10-yr warranty. 39 x 10 x 14 in $749
Tower II. Non-bipolar version of above with one 5¼-in midrange and one 1-in tweeter. Power handling 30 W min, 200 W max. Walnut or black ash vinyl finish. 36 x 10 x 14 in $499

Powered Subwoofer
Acoustic-suspension design with 12-in woofer; 140-W amp. Active EQ for sub-30 Hz response; 18 dB/oct crossover with 55/80/100/140 Hz low-pass selector. Stereo/mono line- and speaker-level inputs. Black-vinyl finish. 15½ x 26⅛ x 10¼ in .$699
Slave Subwoofer. Powered by amp from Powered Subwoofer $299/pr

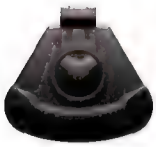
Ensemble Subwoofer/Satellite System
4-speaker system featuring 2 slim-cabinet subwoofers, each with 8-in driver; 2 satellites, each with 4-in ferrofluid-cooled midrange and 1¼-in ferrofluid-cooled tweeter with integral ⅝-in dome. Gold-plated 5-way binding posts. Power handling 30 W min, 200 W max; imp 6 ohms. Satellite cabinets in black or white. 10-yr warranty. Subwoofer: 12 x 21 4½ in. Satellite: 8⅛ x 5¼ x 4 in $599
Ensemble II. As Ensemble, one subwoofer with two 6½-in drivers. Black or white. Subwoofer: 16¼ x 14¼ x 7⅞ $499

Tower III 2-Way Speaker
Bass-reflex design with 8-in polypropylene woofer and 1-in dome tweeter. Magnetic shielding. Power handling 30 W min, 200 W max. Black ash vinyl finish with black knit grille. 10-yr warranty. 33 x 10 x 11 in $599/pr

Bass Cube Twelve Powered Subwoofer
Acoustic-suspension design with 12-in polypropylene long-throw driver; amp rated at 100 W rms. Line- and speaker-level inputs. Standby mode and indicator; phase switch; variable low-pass control; integral stand. Crossover point variable from 60-150 Hz. Black vinyl. 16 x 16 x 16 in; 42 lb $499

Surround 5.1 2-Way Surround Speaker
Bipolar/dipolar design with one 4-in woofer and

Corners Beautifully.



Tapered to tuck neatly into corners and under eaves, the OS-10 comes with a clever pivoting bracket that provides endless mounting solutions.

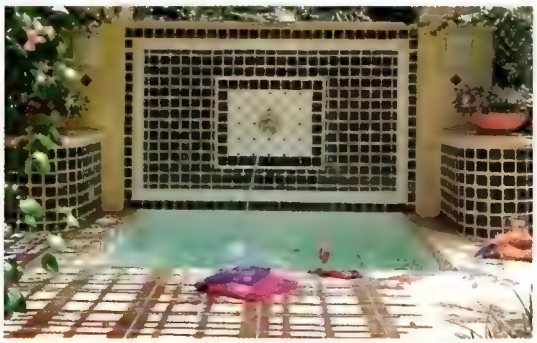
(Even On Wet Surfaces)

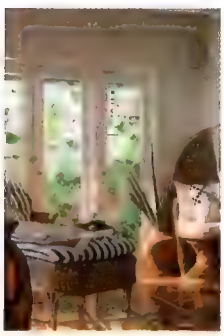
Tough enough for marine applications and beach-front living. Exceeds military anti-corrosion specs (MIL-STD-883D).

ElastoDynamic™ Hybrid Dome Tweeter *Impervious to moisture, Niles' unique tweeter design offers extended frequency response with stunning detail and clarity.*

Niles' speaker engineers are driven to design the very best. The result is *unparalleled* performance—sonically, visually, and functionally. The Niles OS10 Indoor/Outdoor Loudspeaker will exceed all of your expectations.

Sonically. The OS10 handily outperforms many traditional bookshelf speakers. Much of its superb sonic character comes from its unique tweeter design. Constructed from a composite matrix of elastomers and natural fiber substrates, the ElastoDynamic™ tweeter yields extended frequency response with stunning detail and clarity. But to be a great speaker, you need great bass. Here the OS10 shows its true horsepower thanks to its injection-molded, polypropylene Woofer cone, supple butyl-rubber surround, and powerful magnet structure.





Visually. The OS10's aerodynamic shape speaks for itself. But what may not be readily apparent speaks just as loudly. The OS10's tapered enclosure tucks neatly into corners or under eaves, complementing any decor—inside or out. Its clever pivoting bracket (standard equipment on the OS10) gives you endless mounting solutions. Available in white or black, either finish is paintable for a truly custom look.

Functionally. We don't take the term "weather-proof" lightly. The OS10 is designed to withstand extreme climates—from Minneapolis to Miami. Its rugged, non-resonant cabinet is totally sealed (insects or moisture can't creep in) and will not fade under the sun's rays. The grills and brackets are aluminum; the connectors are gold-plated; all the hardware is brass or stainless steel—this speaker will not rust! And Niles guarantees it for *two* years—that's twice as long as most manufacturers.

For the name and phone number of your nearest authorized Niles dealer call 1-800-BUY-HIFI (1-800-289-4434).

NILES®

BLENDING HIGH FIDELITY AND ARCHITECTURE™

Niles Audio Corporation, Inc.
P.O. Box 160818 Miami, FL 33116
In Canada call Aralex Acoustics, Ltd. (604) 528-8965
Internet: **www.nilesaudio.com**

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two 2-in midranges. Power handling 15 W min, 100 W max; crossover point 600 Hz. Charcoal gray Nextel. 10-yr warranty. 8⅛ x 5¼ x 5¼ in . . .$499/pr

Bass Cube Ten Powered Subwoofer
Acoustic-suspension design with downward-firing 10-in long-throw driver; amp rated at 70 W rms. Line- and speaker-level outputs. Standby mode; phase switch; variable low-pass control; integral stand. Crossover point adjustable from 60-150 Hz. Black vinyl. 14 x 14 x 14 in; 30 lb $349

CenterStage 2-Way Center-Channel Speaker
Bass-reflex design with two 5¼-in polypropylene woofers and one 1-in dome tweeter. Horizontal-oriented cabinet; magnetic shielding. Power handling 10 W min, 150 W max. Black finish. 10-yr warranty. 7 x 25 x 8 in $349

Ensemble III Subwoofer/Satellite System
3-speaker system featuring acoustic-bandpass subwoofer with 6½-in dual-voice-coil driver and flared vent; 2 magnetically shielded satellites, each with 3¼-in ferrofluid-cooled midrange and ¾-in ferrofluid-cooled tweeter. Flared subwoofer vent; ABS-plastic enclosures for satellites. Power handling 30 W min, 150 W max. Subwoofer finished in black or white vinyl; satellites finished in Nextel gray or white. 10-yr warranty. Subwoofer: 15 x 8 x 8 in. Satellite: 6½ x 4¼ x 3 in $349
Ensemble IV. As above, subwoofer with 5¼-in driver and 2 satellites, each with 3-in wide-range driver and contouring EQ circuitry. Power handling 30 W min, 125 W max. Subwoofer: 8 x 6½ x 12 in. Satellite: 4 x 4 x 3⅝ in $249

Surround II 5.1 2-Way Bipolar/Dipolar Surround Speaker
Switchable bipolar/dipolar design with 3-in and 2½-in drivers. Power handling 15 W min, 80 W max. Charcoal gray Nextel. 10-yr warranty. 6¼ x 4¾ x 4½ in $329/pr

Desktop Theater 5.1 Powered Computer Speaker System
6-speaker system featuring bass-reflex subwoofer with 5¼-in driver; center speaker with 2-in driver; four satellite speakers, each with 2-in driver; subwoofer and center speaker amps each rated at 15 W; satellite amp rated at 6 W. Supports AVI, MIDI, and WAV computer formats. 6-channel input; SPDIF input; two ⅛-in speaker-level outputs. Volume control; mute switch; test function. Includes cable, 6 desktop stands, and 2 floor stands. Crossover point 180 Hz. Computer beige. Woofer: 9¼ x 6 x 6½ in. Center: 3½ x 3¼ x 3¼ in. Amp/processor: 9¼ x 4 x 6½ in. Satellites: 2¾ x 3 x 3 in. 17 lb total $300

The Outdoor 2-Way Speaker
Acoustic-suspension design with 5¼-in copolymer woofer and 1-in dome tweeter. Water resistant, inert calcium-filled polypropylene enclosure. Gold-plated 5-way binding posts. Integral keyhole socket for wall hanging. Power handling 10 W min, 100 W max. Paintable off-white finish. 7 x 11 x 51⅛ in . . .$299/pr
Ambiance In-Wall System. As The Outdoor, but for indoor/in-wall use. Deeper bass response. 8¼ x 11¾ x 3¾ in $349/pr
The Outdoor In-Wall. As Outdoor, except fully sealed enclosure fits in stud-depth wall . . .$349/pr

MicroWorks Powered Subwoofer/Satellite System
3-speaker system featuring bass module with 6½-in long-throw driver; 2 satellite speaker cubes, each with 3-in long-throw driver and desktop stand; amp with active EQ built into bass module; 50 W bass + 10 W x 2 for satellites. Designed for use with computers and portable music sources. Two stereo inputs. Black or beige finish. Bass module: 17 x 9 x 7 in. Satellite: 4 x 4 x 4 in . . .$249

Center Channel Plus 2-Way Speaker
Acoustic-suspension design with four 3½-in drivers and one 1¾-in ferrofluid-cooled tweeter with integral ⅝-in dome. Magnetic shielding. Power handling 150 W max; imp 8 ohms. Black-vinyl finish. 10-yr warranty. 4 x 25 x 7 in $229
Under-TV support bracket for above $25
Center Channel II. As Center Channel Plus, two 3½-in drivers. Power handling 10 W min, 100 W max. 4 x 14 x 7 in $159

PCWorks Four Point Surround Powered Computer Speaker System
5-speaker system featuring bass-reflex subwoofer with 5¾-in driver; 4 acoustic-suspension satellites with 2-in long-throw driver; subwoofer amp rated at 10 W; satellite amp rated at 3 W. Magnetic shielding. Two speaker-level inputs; 4 speaker-level outputs. Bass-level control; volume control. Includes 2 floor stands and 4 desktop stands. Crossover point 180 Hz. Computer beige. Subwoofer: 9¼ x 6 x 6⅜ in. Satellite: 2⅞ x 2⅞ x 2¾ in. 11 lb total $200

SoundWorks Powered Subwoofer/ Satellite System
3-piece computer-speaker system featuring bandpass bass module with 4½-in long-throw driver; 2 satellite cubes, each with 2-in long-throw drivers and stands; 3-channel amp with active EQ built into bass module; 120-V AC or 12-V DC operation. Black or beige. Subwoofer: 8 x 6 x 9½ in. Satellite: 3½ x 3½ x 3½ in $149

Model Six 2-Way Bookshelf Speaker
Acoustic-suspension design with 8-in long-throw polypropylene woofer and 1¾-in ferrofluid-cooled tweeter with integral ⅝-in dome. MDF enclosure. Power handling 15 W min, 150 W max; crossover point 2 kHz; sens 90 dB; imp 8 ohms. Oak, teak, or black ash vinyl finish. 10-yr warranty. 18¼ x 11¼ x 7⅜ in $129
Model Seventeen. As above, 5¼-in woofer and ⅝-in dome tweeter. Power handling 15 W min, 150 W max. Oak, teak, black ash, or white. 7½ x 11½ x 6 in $89

Center/Surround III 2-Way Center/ Surround Speaker
3½-in woofer and ¾-in tweeter. Magnetic shielding. Integral keyhole socket for wall hanging. Power handling 10 W min, 80 W max. Nextel gray finish. 10-yr warranty. 6 x 4 x 3 in $89

PC Works Powered Subwoofer/Satellite System
3-speaker system featuring subwoofer with one 5¼-in driver in bass-reflex enclosure; 2 satellites, each with 2¼-in long-throw driver. Designed for use with computers and portable music sources. Magnetic shielding. Volume control; stands for satellites. Crossover point 150 Hz. Black or computer beige. Woofer: 9¼ x 6 x 6⅜ in. Satellite: 2⅞ x 2⅞ x 2¾ in $69

Center/Surround IV Center/Surround Speaker
3-in wide-range driver. Internal contouring EQ circuitry; magnetic shielding. Power handling 10 W min, 75 W max. Nextel finish. 10-yr warranty. 4 x 4 x 4 in $49

CANTON

The following have 12-dB/oct crossovers and an impedance of 4-8 ohms.

Digital Series
Digital 1 3-Way Speaker
Bass-reflex design with two 10-in polypropylene woofers and one 7-in polypropylene-cone midrange with coaxially mounted 1-in aluminum-manganese tweeter. Midrange driver and tweeter mounted on separate dipole assembly above bass enclosure. Biampable terminals. DSP outboard controller to custom modify speakers to room acoustics. Power handling 350 W; crossover points 220 Hz and 3.3 kHz; FR 18 Hz-30 kHz; sens 87 dB; imp 4 ohms. Black-ash or cherry veneer finish. 5-yr warranty. 11⅞ x 47¼ x 14 in $14,995/pr
Digital 2/98. As above with two 9-in polypropylene woofers, one 7-in polypropylene cone midrange, and one 1-in aluminum-manganese tweeter. 10 x 41⅜ x 12¼ in $6,995/pr

Ergo Series
The following use a bass-reflex design and carry a 5-year warranty.

122 DC 3-Way Speaker
Two 10-in polypropylene woofers, one 7-in polypropylene cone midrange, and one 1-in aluminum-manganese tweeter. Biampable terminals. Power handling 400 W; crossover point variable from 300 Hz-3.5 kHz; FR 20 Hz-30 kHz; sens 90 dB; imp 4 ohms. Black-ash or cherry veneer finish. 12⅜ x 49⅝ x 13½ in $2,995/pr
120 DC. As above, except with two 9-in polypropylene woofers. Power handling 350 W. 10⅜ x 43¾ x 13½ in $2,495/pr

RC-L 3-Way Speaker
Two 9-in polypropylene woofers, one 7-in polypropylene cone midrange, and one 1-in aluminum-manganese tweeter. Biampable terminals. Electronic EQ. Power handling 350 W; crossover point variable from 300 Hz-3.5 kHz; FR 18 Hz-30 kHz; sens 89 dB; imp 4 ohms. Black ash or cherry veneer finish. 10⅜ x 48¾ x 13½ in $2,995/pr

82 DC 3-Way Speaker
8-in polypropylene woofer, 8-in polypropylene cone midrange, and 1-in aluminum-manganese tweeter. Biampable terminals. Power handling 200 W; crossover point variable from 300 Hz-3.5 kHz; FR 22 Hz-30 kHz; sens 88 dB; imp 4 ohms. Black ash or cherry veneer. 9⅛ x 38½ x 12⅛ in $1,995/pr
72 DC. As above, 7-in polypropylene woofer, 7-in polypropylene-cone midrange. Biampable terminals. Power handling 150 W; FR 25 Hz-30 kHz; sens 86 dB. 8½ x 35½ x 11⅜ in $1,495/pr

31 DC 2-Way Bookshelf Speaker
9-in woofer and 1-in aluminum-manganese-dome tweeter. Power handling 130 W; FR 27 Hz-30 kHz. Black, white, or cherry. 5-yr warranty. 10¼ x 17 x 10½ in $1,195/pr
As above with magnetic shielding $1,374/pr
LF 63. Speaker stand $249/pr

21 DC 2-Way Bookshelf Speaker
8-in woofer and 1-in aluminum-manganese-dome tweeter. Power handling 110 W; FR 33 Hz-30 kHz. Black, white, light cherry, or beech. 5-yr warranty. 9 x 13½ x 10⅛ in $995/pr
As above with magnetic shielding $1,144/pr
LF 63. Speaker stand $249/pr

R 52 2-Way Dipolar Speaker
4-in woofer and two 1-in aluminum-manganese tweeters. 1 input. Keyhole for wall-mounting. Power handling 140 W; crossover point 3.3 kHz; FR 45 Hz-30 kHz; sens 86 dB; imp 4 ohms. Cherry veneer. 7¼ x 8 x 4¾ in $898/pr
As above, black or white satin lacquer $698/pr

CM 51 3-Way Center-Channel Speaker
Two 7-in woofers, one 4-in midrange, and one 1-in aluminum-manganese-dome tweeter. Magnetic shielding. Power handling 150 W; FR 26 Hz-30 kHz. Black, white, or cherry. 5-yr warranty. 19¾ x 9 x 11⅜ in $895
LF 63. Speaker stand $249/pr

Karat Series
The following have a black, white, or cherry finish.

M 40 3-Way Speaker
Bass-reflex design with two 4-in woofers, 4-in midrange, and 1-in tweeter. Magnetic shielding. Biampable terminals. Includes stand. Power handling 120 W rms; FR 30 Hz-30 kHz; sens 87.5 dB. 5½ x 43¾ x 9½ in $2,995/pr

AS 4 Powered Subwoofer
Bass-reflex design with two 9-in woofers; 100 W amp. Magnetic shielding. Bass-level control; crossover control; phase control. FR 20-150 Hz.

5-yr speaker, 2-yr amp warranty. 9⅛ x 23⅝ x 16⅛ in $1,498
Stand for above $98

CM 2 2-Way Center-Channel Speaker
Bass-reflex design with two 4-in woofers and one 1-in aluminum-manganese-dome tweeter. Magnetic shielding. Power handling 60 W rms; FR 42 Hz-30 kHz. 5-yr warranty. 10½ x 5½ x 11 in ... $995/pr
LF 4. Speaker stand $249/pr

R 4 2-Way Dipolar Surround Speaker
Dipolar design with two 4-in woofers and two 1-in tweeters. Wall mountable. Speaker stand optional. Power handling 60 W rms; crossover point 3.3 kHz; FR 45 Hz-30 kHz; sens 86 dB. 7⅛ x 7⅛ x 5⅛ in $995/pr

CM 4 2-Way Center-Channel Speaker
Bass-reflex design with two 4-in woofers, one 4-in midrange, and one 1-in aluminum-manganese-dome tweeter. Magnetic shielding. Power handling 140 W; FR 45 Hz-30 kHz. 5-yr warranty. 15½ x 5½ x 12¼ in $698
LF 4. Speaker stand $249/pr

Fonum Series
The following use a bass-reflex design.

730 DC 3-Way Speaker
Two 9-in woofers, one 6-in midrange, and one 1-in aluminum-manganese-dome tweeter. Power handling 250 W; FR 20 Hz-30 kHz. Black or cherry vinyl. 5-yr warranty. 10 x 41⅜ x 12⅜ in ... $1,795/pr
As above with magnetic shielding $2,294/pr

630 DC 3-Way Speaker
8-in woofer, 8-in midrange, and 1-in aluminum-manganese-dome tweeter. Power handling 160 W; FR 25 Hz-26 kHz. Black or cherry vinyl. 5-yr warranty. 9⅛ x 36½ x 11⅛ in $1,295/pr
As above with magnetic shielding $1,489/pr

530 DC 2-Way Speaker
8-in woofer and 1-in soft-dome tweeter. Power handling 120 W; FR 30 Hz-26 kHz. Black or cherry vinyl. 5-yr warranty $995/pr
As above with magnetic shielding $1,144/pr

AS 30 Powered Subwoofer
Two 9-in woofers; amp rated at 100 W. Magnetic shielding. Crossover control; bass-level control; phase control. FR 20 Hz-150 Hz. Black. 5-yr speaker, 2-yr amp warranty. 9⅛ x 23⅝ x 16⅛ in $995

330 2-Way Bookshelf Speaker
6-in woofer and 1-in soft-dome tweeter. Power handling 100 W; FR 38 Hz-26 kHz. Black with black fabric grille. 5-yr warranty. 8⅛ x 14⅛ x 10¾ in $695/pr
As above with magnetic shielding $799/pr
LF 63. Speaker stand $249/pr

R31 2-Way Dipolar Surround Speaker
4-in woofer and two 1-in aluminum-manganese tweeters. Keyhole for wall-mounting. Power handling 120 W; crossover point 3 kHz; FR 47 Hz-26 kHz; sens 86 dB. Black matte vinyl. 5-yr warranty. 7½ x 8 x 5⅛ in $595/pr

CM 30 2-Way Bookshelf Speaker
Two 6-in woofers and one 1-in soft-dome tweeter. Magnetic shielding. Power handling 130 W; FR 32 Hz-30 kHz. Black. 5-yr warranty. 17⅜ x 7⅛ x 12⅜ in $495

Fonissimo Series
The following carry a 5-year warranty.

Fonissimo RC Subwoofer/Satellite System
3-speaker system featuring subwoofer with 8-in dual-voice-coil drivers; 2 satellites, each with 4-in woofer and 1-in aluminum-manganese tweeter. Electronic EQ. Power handling 180 W; crossover points 120 Hz and 2.2 kHz; sens 87 dB; imp 4 ohms. Black or white satin lacquer $995

Fonissimo 2+ Subwoofer/Satellite System
3-speaker system featuring subwoofer with two 8-in drivers; 2 satellites, each housing 4-in midrange with coaxially mounted 1-in tweeter. Power handling 180 W max; crossover points 120 Hz and 2.2 kHz; FR 22 Hz-30 kHz system; sens 87 dB. Black or white. Subwoofer: 9⅜ x 12⅞ x 15¾ in; 26 lb. Satellite: 5⅛ x 5 x 5½ in; 3 lb $795

Twin 800 2-Way Bookshelf Speaker
4-in woofer and 1-in aluminum-manganese-dome tweeter. Power handling 80 W max; crossover point 2.5 kHz; FR 45 Hz-30 kHz; sens 87 dB. Black or white. 5⅛ x 8 x 5⅛ in; 5 lb $375/pr

Twin 700 2-Way Minispeaker
Coaxial acoustic-suspension design with 4-in woofer and 1-in aluminum-manganese tweeter. Wall-mountable. Power handling 70 W; FR 65 Hz-30 kHz; sens 87 dB. Black. 5⅛ x 5 x 5½ in $349/pr
Wall-mount brackets $60/pr

AV-700 2-Way Center-Channel Speaker
Two 4-in woofers and one 1-in tweeter. Magnetic shielding. Power handling 100 W max; crossover point 3 kHz; FR 40 Hz-30 kHz; sens 88 dB. Black or white satin lacquer finish. 17⅜ x 2⅛ x 2½ in; 9 lb $349

AV 100 Minispeaker
Acoustic-suspension design with 4-in driver. Wall-mountable. Power handling 70 W; FR 65 Hz-100 kHz; sens 87 dB. Black. 5-yr warranty. 5⅛ x 5 x 5½ in $198/pr
Wall-mount brackets $60/pr

Plus Series
Plus C Subwoofer
12-in woofer. Power handling 100 W max; crossover point 120 Hz; FR 22-120 Hz; sens 88 dB. Black or white. 13½ x 14¼ x 13⅞ in; 26 lb $595

Plus D 2-Way Bookshelf Speaker
Bass-reflex design with 6-in woofer and 1-in tweeter. Power handling 80 W max; crossover point 2.5 kHz; FR 41 Hz-30 kHz; sens 88 dB. Black or white. 7⅛ x 10⅞ x 7⅛ in; 9 lb $498/pr

Patio 160 2-Way Outdoor Speaker
Acoustic-suspension design with 6-in woofer and 1-in tweeter. Water-resistant enclosure. Power handling 80 W max; crossover point 2.9 kHz; FR 42 Hz-30 kHz; sens 88 dB. White. 7 x 10⅞ x 5 in; 9 lb $449/pr

Plus F 2-Way Speaker
4-in woofer and 1-in tweeter. Designed for wall hanging. Power handling 70 W max; crossover point 2.5 kHz; FR 48 Hz-30 kHz; sens 87 dB. White. 7⅛ x 10⅞ x 2⅞ in; 5 lb $398/pr

Plus S 2-Way Bookshelf Speaker
4-in woofer and 1-in tweeter. Power handling 70 W max; crossover point 2.2 kHz; FR 45 Hz-30 kHz; sens 87 dB. Black or white. 4¾ x 8 x 4⅜ in; 5 lb $349/pr

HC100 2-Way Bookshelf Speaker
4-in woofer and 1-in tweeter. Power handling 60 W max; crossover point 1.7 kHz; sens 87 dB. Black or white. 7½ x 4¾ x 5¾ in; 4 lb $298/pr

CARVER

Cinema 5.2 Powered Home Theater System
6-speaker system featuring two 10-in powered tower-mounted subwoofers, each with 300-W amp; two front speakers, each with rear-firing random-phase drivers; two dipolar surround speakers. 2 line- and speaker-level inputs and outputs. Bass-tilt control; bass-level and contour control. Includes speaker wires. Crossover point 100 Hz; FR 24 Hz-21 kHz; sens 89 dB front, 91 dB center, 87 dB surround. Black with black fabric grille. 5-yr warranty. Center: 20 x 8 x 8¼ in. Front: 8 x 14½ x 42 in. Surround: 11½ x 12 x 5 in $2,395

Cinema 5.1 Powered Home Theater System
6-speaker system featuring 10-in powered subwoofer with 150-W amp; two front speakers and one center speaker, each with 2½-in rear-firing drivers; two dipole surround speakers. Magnetic shielding for center speaker. 2 line- and speaker-level inputs and outputs. Bass-tilt control; bass-level control. Includes wires. Low-pass crossover point adjustable from 40-150 Hz; high-pass crossover point 80 Hz; FR 28 Hz-21 kHz; sens 89 dB front, 87 dB surround; imp 4 ohms. Black with black fabric grille. 5-yr warranty. Subwoofer: 16 x 18 x 18 in; 49 lb. Front: 7¼ x 9½ x 12½ in; 14 lb. Center: 17½ x 7¾ x 7 in; 17 lb. Surround: 11½ x 12 x 5 in; 13 lb $1,695

CASTLE

Standard finishes for the following, except for Clifton, are cherry, mahogany, and black ash. Natural oak, antique oak, medium oak, walnut, and yew rosewood exotic finishes are optional. All models carry a 5-year limited warranty. Quarter wave refers to an enclosure design that uses a tapered, folded vent to improve low-frequency performance.

Howard S2 2-Way Speaker
Two 6-in woofers, one firing upward from top of cabinet; one 1-in metal-dome tweeter. Quarter-wave enclosure. Power handling 130 W max; FR 35 Hz-22 kHz; sens 90 dB; imp 8 ohms. 10⅜ x 41¾ x 16⅜ in; 55 lb $2,699/pr
As above, exotic finish $3,099/pr

Harlech 2-Way Speaker
Two 5-in woofers, one firing upward from top of cabinet; one 1-in dome tweeter. Quarter-wave enclosure. Power handling 150 W max; FR 40 Hz-22 kHz; sens 88 dB; imp 8 ohms. 8 x 37⅝ x 12⅞ in; 44 lb $2,099/pr
As above, exotic finish $2,299/pr

Avon 2-Way Speaker
Bass-reflex design with 6½-in carbon-fiber woofer and 1-in soft-dome tweeter. Floor-exiting port. Biampable terminals. Power handling 130 W; crossover point 3.3 kHz; FR 43 Hz-20 kHz; sens 87 dB; imp 8 ohms. 8½ x 35 x 10½ in; 50 lb $1,799/pr
As above, custom finish $1,999/pr

Severn 2 2-Way Speaker
Bass-reflex design with 6-in carbon-fiber woofer and 1-in dome tweeter. Biampable terminals. Power handling 25 W min, 110 W max; FR 47 Hz-20 kHz ±3 dB; sens 87 dB; imp 8 ohms. 9 standard finishes. 8¼ x 32 x 10½ in; 35 lb $1,399/pr
As above, in exotic finishes $1,599/pr

Eden 2-Way Bookshelf Speaker
Bass-reflex design with 6½-in carbon-fiber woofer and 1-in soft-dome tweeter. Biampable terminals. Power handling 120 W; crossover point 3.3 kHz; FR 45 Hz-20 kHz; sens 87 dB; imp 8 ohms. 18½ x 17 x 10 in; 31 lb $1,199/pr
As above, custom finish $1,299/pr

Kendal 2-Way Speaker
Acoustic-suspension design with 5-in carbon-fiber woofer and 1-in dome tweeter. Biampable terminals. Power handling 25 W min, 100 W max; FR 50 Hz-20 kHz ±3 dB; sens 87 dB; imp 8 ohms. 9 standard finishes. 29 x 4½ x 7½ in; 24 lb $999/pr
As above, in exotic finishes $1,199/pr

Tay 2-Way Bookshelf Speaker
Bass-reflex design with 5-in woofer and 1-in soft-dome tweeter. Biampable terminals. Power handling 110 W; crossover point 2.8 kHz; FR 50 Hz-20 kHz; sens 87 dB; imp 8 ohms. 7½ x 16½ x 9½ in; 16 lb $799/pr
As above, custom finish $899/pr

Keep 2-Way Center-Channel Speaker
Twin-port bass-reflex design with two 5-in woofers and one 1-in soft-dome tweeter. Magnetic shielding. Biampable terminals. Power handling 130 W;

crossover point 3.7 kHz; FR 65 Hz-20 kHz; sens 89 dB; imp 8 ohms. 19 x 6¾ x 11 in; 23 lb $599
As above, custom finish $699

Isis 2-Way Speaker
Bass-reflex design with 5-in woofer and 1-in composite-dome tweeter. Power handling 90 W max; sens 87 dB; imp 8 ohms $549/pr
As above, exotic finish $649/pr

Clifton 2-Way Speaker
Rear-ported bass-reflex design with 5-in woofer and 1-in soft-dome tweeter. Power handling 75 W max; FR 62 Hz-20 kHz; sens 88 dB; imp 8 ohms. Cherry or black ash finish $395/pr

CELESTION

A Series

A3 3-Way Speaker
Bass-reflex design with three 8-in woofers, one 7-in midrange, and one 1-in titanium-dome tweeter. Magnetic shielding; wood-veneer cabinet. Biampable terminals. Power handling 300 W; crossover points 300 Hz and 3 kHz; FR 36 Hz-20 kHz ±2 dB; sens 90 dB; imp 4 ohms. Cherry or black-ash wood veneer. 5-yr warranty. 11 x 45 x 17 in; 101 lb $3,500/pr
As above, rosewood $4,000/pr

A2 2½-Way Speaker
Bass-reflex design with two 7-in woofers and one 1-in titanium-dome tweeter. Magnetic shielding; wood-veneer cabinet. Biampable terminals. Power handling 220 W; crossover point 3 kHz; FR 40 Hz-20 kHz ±2 dB; sens 90 dB; imp 4 ohms. Cherry or black-ash wood veneer. 5-yr warranty. 10 x 36 x 15 in; 65 lb $2,300/pr
As above, rosewood $2,700/pr

A1 2-Way Bookshelf Speaker
7-in woofer and 1-in titanium-dome tweeter. Magnetic shielding; wood-veneer cabinet. Biampable terminals. Power handling 150 W; FR 43 Hz-20 kHz ±2 dB; sens 88 dB; imp 4 ohms. Cherry or black-ash wood veneer. 10 x 16 x 14 in; 31 lb $1,500/pr
As above, rosewood $1,700/pr

A6s Powered Subwoofer
Bandpass design with two 10-in drivers; 200-W amp. Magnetic shielding; push-pull woofer configuration. Speaker- and line-level inputs and outputs. Level control; variable frequency. Wood cherry or rosewood top available to match A series main speakers. Crossover point variable from 60-90 Hz; FR 29-90 Hz ±2 dB. Black ash top. 13 x 24 x 16 in; 66 lb $1,200

A Compact 2-Way Speaker
4-in woofer and 1-in titanium-dome tweeter. Magnetic shielding. Biampable terminals. Power handling 100 W; crossover point 3 kHz; FR 80 Hz-20 kHz ±2 dB; sens 85 dB; imp 4 ohms. Cherry or black-ash wood veneer. 5-yr warranty. 7 x 10 x 8 in; 10 lb $1,000/pr
As above, rosewood $1,100/pr

A4c 3-Way Center-Channel Speaker
Two 7-in woofers, one 4-in midrange, and one 1-in titanium-dome tweeter. Magnetic shielding; cast midrange and tweeter housing. Biampable terminals. Adjustable rubber feet. Power handling 150 W; crossover points 600 Hz and 5 kHz; FR 100 Hz-20 kHz ±2 dB; sens 90 dB; imp 4 ohms. Video-gray finish. 26 x 8 x 8 in; 24 lb $1,000

A5r 2-Way Dipolar Surround Speaker
Two 4-in midranges and two 1-in titanium-dome tweeters. Power handling 150 W; crossover point 5 kHz; FR 70 Hz-20 kHz ±2 dB; sens 87 dB; imp 8 ohms. White or video gray finish. 12 x 9 x 7 in; 15 lb $1,000/pr

C Series

C3 3-Way Speaker
Acoustic-suspension design with four 5¼-in woofers, one 5¼-in midrange, and one 1-in titanium-dome tweeter. Magnetic shielding; aluminum cabinet. Biampable terminals. Power handling 200 W; crossover points 3 kHz and 120 Hz; FR 36 Hz-20 kHz ±2 dB; sens 90 dB; imp 4 ohms. 6 x 41 x 10 in; 28 lb $1,600/pr

C2 2-Way Speaker
Bass-reflex design with two 5¼-in woofers and one 1-in titanium-dome tweeter. Magnetic shielding; aluminum cabinet. Biampable terminals. Power handling 150 W; crossover point 3 kHz; FR 40 Hz-20 kHz ±2 dB; sens 91 dB; imp 4 ohms. 6 x 33 x 10 in; 21 lb $1,200/pr

C6S Powered Subwoofer
Acoustic-suspension design with 12-in driver; 100-W amp. Magnetic shielding. Speaker- and line-level inputs. Level, crossover, and phase controls; infrared remote control. FR 35-150 Hz. 17 x 15 x 17 in; 30 lb $1,200

C1 2-Way Bookshelf Speaker
Bass-reflex design with 5¼-in woofer and 1-in titanium-dome tweeter. Magnetic shielding; aluminum cabinet. Biampable terminals. Power handling 100 W; crossover point 3 kHz; FR 50 Hz-20 kHz; sens 90 dB; imp 4 ohms. 6 x 13 x 10 in; 9 lb $600/pr

C4C 2-Way Center-Channel Speaker
Bass-reflex design with two 5¼-in woofers and one 1-in titanium-dome tweeter. Magnetic shielding; aluminum cabinet. Biampable terminals. Power handling 100 W; crossover point 2.9 kHz; FR 68 Hz-20 kHz ±2 dB; sens 91 dB; imp 4 ohms. 19 x 6 x 10 in $500

C5R 2-Way Dipolar Surround Speaker
Bass-reflex design with two 4-in woofers and one ⅝-in tweeter. Power handling 75 W; crossover point 4 kHz; FR 80 Hz-20 kHz ±2 dB; sens 87 dB; imp 8 ohms. White or video gray finish. 6 x 11 x 10 in; 5 lb $500/pr

Style Series

CSW MkII Powered Subwoofer
8-in driver; 75-W amp. Speaker- and line-level inputs and outputs. Level control; adjustable frequency. FR 80-120 Hz ±3 dB. Gray finish. 21 x 10 x 18 in; 36 lb $449

MP1 2-Way Outdoor Speaker
Bass-reflex design with 3½-in woofer and 1-in tweeter. Magnetic shielding. Integral stand/wall mount. Power handling 150 W; FR 70 Hz-20 kHz ±3 dB; sens 90 dB; imp 8 ohms. White or video gray finish. 6 x 12 x 9 in; 7 lb $300/pr

Centre 2 2-Way Center-Channel Speaker
Bass-reflex design with two 4½-in woofers and one ¾-in tweeter. Magnetic shielding. Adjustable feet. Power handling 20-100 W; FR 100 Hz-20 kHz ±3 dB; sens 90 dB; imp 8 ohms. Video gray finish. 17 x 7 x 7 in; 7 lb $249

Little 1 2-Way Surround Speaker
Acoustic-suspension design with 3½-in woofer and 4-in tweeter. Integral bracket. Power handling 50 W; FR 100 Hz-20 kHz ±3 dB; sens 90 dB; imp 8 ohms. White or video gray finish. 6 x 8 x 4 in; 3 lb $180/pr

CSC 2-Way Center-Channel Speaker
Acoustic-suspension design with two 3½-in woofers and one ¾-in tweeter. Magnetic shielding. Power handling 75 W; FR 88-20 Hz; sens 89 dB; imp 6 ohms. Video-gray finish. 13 x 5 x 6 in; 6 lb ...$179

CELLO

Stradivari Grand Master 3-Way Speaker
Acoustic-suspension design with two 12-in woofers, eight 2-in dome midranges, and eight ¾-in dome tweeters. Dynaudio drivers. Power handling 900 W; crossover points 500 Hz and 5 kHz; imp 2 ohms. Piano-black finish. 17 x 86½ x 18 in; 500 lb $60,000/pr
Rosewood finish $58,000/pr

Stradivari Master 3-Way Speaker
Acoustic-suspension design with two 12-in woofers, four 2-in dome midranges, and four ¾-in dome tweeters. Dynaudio drivers. Power handling 800 W; crossover points 500 Hz and 5 kHz; imp 3 ohms. Piano-black finish. 17 x 61½ x 18 in; 370 lb $35,000/pr
Rosewood finish $32,000/pr

Stradivari Premiere 3-Way Speaker
12-in woofer, 3-in dome midrange, and 1-in dome tweeter. Dynaudio drivers. Power handling 350 W; crossover points 500 Hz and 7 kHz; imp 6 ohms. Piano-black finish. 17 x 45 x 18 in; 260 lb ..$18,000/pr
Rosewood finish $12,000/pr

Amati Pro 3-Way Speaker
Acoustic-suspension design with one 12-in woofer, four 1½-in dome midranges, and four ¾-in tweeters. Power handling 450 W. 19 x 27 x 10 in; 80 lb $16,500/pr

Serafin 2-Way Powered Speaker
9-in woofer and 1-in dome tweeter; amp rated at 90 W x 1 (woofer) + 60 x 1 (tweeter). Crossover point 2 kHz; FR 40 Hz-20 kHz. Burlwood, mahogany, walnut, or piano-black finish. 19 x 13 x 15 in $12,000/pr

Stradivari Legend 3-Way Speaker
Acoustic-suspension design with 12-in woofer, 3-in dome midrange, and 1-in dome tweeter. Power handling 350 W. Burlwood or piano-black finish. 14 x 26½ x 12 in; 80 lb $8,000/pr
Walnut or mahogany finish $8,000/pr

Elves 2-Way Bookshelf Speaker
Acoustic-suspension design with 6½-in polymer-composite woofer and 1-in soft-dome tweeter. Two pair terminal posts. Cello String 3- and 2-speaker cables optional. Power handling 130 W; crossover point 2 kHz; FR 70 Hz-20 kHz ±3 dB; sens 90 dB; imp 4 ohms. 11½ x 16 x 12 in $4,200/pr

CERWIN-VEGA

All models carry a 5-year limited warranty.

System 120 Home Theater System
6-speaker system featuring powered subwoofer with 12-in driver and amp rated at 150 W; 4 satellites, each with 5-in drivers and 80-W power handling; center-channel speaker with dual 5-in drivers and 150-W power handling. Magnetic shielding for satellite and center-channel speakers $1,349

System 100 Home Theater System
6-speaker system featuring powered subwoofer with 10-in driver and amp power rated at 100 W; 4 satellites, each with 4-in drivers and 80-W power handling; center-channel speaker with dual 4-in drivers and 100-W power handling. Magnetic shielding for satellite and center-channel speakers $1,049

AL-1000 3-Way Speaker
Bass-reflex design with 15-in woofer, 8-in midrange, and 1-in supronyl soft-dome tweeter. Die-cast aluminum woofer and midrange chassis; fuse protection. Biampable terminals. Power handling 1,000 W; crossover point selectable at 400 Hz or 3.5 kHz; FR 28 Hz-20 kHz ±2.5 dB; sens 95 dB; imp 4 ohms. 43⅜ x 17⅛ x 17 in $799

HT-S15 Powered Subwoofer
Bass-reflex design with down-firing 15-in driver; 200-W amp. Low-pass filter with 18-dB/oct slope. Crossover point variable from 30-150 Hz; FR 30-150 Hz. 20½ x 18½ x 18½ in; 72 lb $799

SUB-150 Powered Subwoofer
Bass-reflex design with down-firing 15-in driver; 200-W amp. Low-pass filter with 18-dB/oct slope. Crossover point variable from 30-150 Hz; FR 30-150 Hz. 20½ x 18½ x 18½ in; 72 lb $799

AL-750 3-Way Speaker
Bass-reflex design with 12-in woofer, 6½-in mid-

range, and 1-in supronyl soft-dome tweeter. Die-cast aluminum woofer and midrange chassis; fuse protection. Power handling 750 W; crossover point selectable at 400 Hz or 3.5 kHz; FR 35 Hz-20 kHz ±2.5 dB; sens 95 dB; imp 4 ohms. 38 x 14 x 12½ in $649

HT-S12 Powered Subwoofer
Bass-reflex design with down-firing 12-in driver; 150-W amp. Low-pass filter with 18-dB/oct slope. Crossover point variable from 50-150 Hz; FR 35-150 Hz. 19 x 17 x 17 in; 60 lb $649

LW-12 Powered Subwoofer
Bass-reflex design with 12-in driver; amp rated at 150 W rms. Crossover point variable from 40-150 Hz; FR 35-150 Hz ±3 dB $599

HT-S10 Powered Subwoofer
Bass-reflex design with down-firing 10-in driver; 100-W amp. Low-pass filter with 18-dB/oct slope. Crossover point variable from 50-150 Hz; FR 35-150 Hz. 17 x 15 x 15 in; 55 lb $529

LW-10 Powered Subwoofer
Bass-reflex design with 10-in driver; amp rated at 100 W rms. Crossover point variable from 40-150 Hz; FR 32-150 Hz ±3 dB $499

HT-SAT5 2-Way Satellite Speaker
Bass-reflex design with 5¼-in woofer and 1-in silk-dome tweeter. Magnetic shielding. Power handling 150 W cont; FR 60 Hz-22 kHz ±2.5 dB; sens 92 dB; imp 8 ohms. 6⅛ x 11½ x 7⅝ in; 6 lb $299/pr

HT-SAT4 2-Way Satellite Speaker
Acoustic-suspension design with 4-in woofer and 1-in silk-dome tweeter. Magnetic shielding. Power handling 80 W cont; crossover point 4 kHz; FR 80 Hz-22 kHz ±2.5 dB; sens 91 dB; imp 8 ohms. 5¼ x 10⅛ x 5⅝ in; 5 lb $239/pr

HT-CTR25 2-Way Center-Channel Speaker
5½-in woofer and 1-in silk-dome tweeter. Magnetic shielding. Power handling 150 W cont; crossover point 4 kHz; FR 80 Hz-22 kHz ±2.5 dB; sens 92 dB; imp 8 ohms. 19½ x 6⅛ x 7⅜ in; 7 lb $229
HT-CTR24. As above, 4-in woofer. 15 x 5¼ x 6⅝ in; 6 lb $179

CVT Series
The following have magnetic shielding.

CVT-300S Powered Subwoofer
Bass-reflex design with side-firing 15-in aluminum-frame driver; amp rated at 300 W rms. Low-pass filter with 18-dB/oct slope. Line- and speaker-level inputs and outputs; subwoofer input. Phase switch. Crossover point variable from 120 Hz-50 kHz; FR 25-120 Hz. 12¼ x 29½ x 20¾ in $799

CVT-12 3-Way Speaker
Bass-reflex design with one side-firing 12-in die-cast aluminum-frame woofer, two 7-in midranges, and one 1-in silk-dome tweeter. Gold-plated bi-ampable 5-way binding posts. Power handling 300 W; FR 38 Hz-20 kHz ±2.5 dB; sens 94 dB; imp 4 ohms. 10½ x 43½ x 20 in $699

CVT-200S Powered Subwoofer
Bass-reflex design with side-firing 12-in aluminum-frame driver; amp rated at 200 W rms. Low-pass filter with 18 dB/oct slope. Phase switch. Crossover point variable from 120 Hz-50 kHz; FR 25-120 Hz. 10 x 23 x 19⅛ in $599

CVT-10 3-Way Speaker
Bass-reflex design with side-firing 10-in die-cast aluminum-frame woofer, 7-in midrange, and 1-in silk-dome tweeter. Multislope phase-corrected design. Gold-plated biampable 5-way binding posts. Power handling 200 W; FR 40 Hz-20 kHz ±2.5 dB; sens 92 dB; imp 4 ohms. 10 x 38 x 17 in $499

CVT-7LCR 2-Way Center-Channel Speaker
Two 7-in woofers and one 1-in silk-dome tweeter. Multislope phase-corrected design. Gold-plated biampable 5-way binding posts. FR 58 Hz-20 kHz ±2.5 dB; sens 94 dB; imp 4 ohms. 22¼ x 9½ x 13 in $349

E Series
The following have self-resetting tweeter protection, an adjustable attenuator for the midrange and tweeter, and a scuff-resistant vinyl finish.

E-315 3-Way Speaker
Bass-reflex design with 15-in woofer, 6½-in midrange, and 1-in polyetherimide-dome tweeter. Die-cast aluminum woofer chassis; fuse protection. Midrange- and tweeter-level controls. Power handling 400 W cont; crossover points 700 Hz and 3.5 kHz; FR 28 Hz-20 kHz ±3 dB; sens 102 dB; imp 8 ohms. 36 x 17½ x 15½ in; 66 lb $559
E-312. As above, 12-in woofer, 5¼-in midrange. Power handling 300 W cont; crossover points 400 Hz and 3.5 kHz; sens 98 dB. 33 x 14½ x 12½ in; 51 lb $365
E-310. As above, 10-in woofer. Power handling 150 W cont; crossover points 600 Hz and 3 kHz; FR 38 Hz-20 kHz ±3 dB; sens 95 dB. 31 x 12¾ x 9¾ in; 39 lb $319

Re-38 3-Way Speaker
Bass-reflex design with 15-in woofer, 6½-in midrange, and 1-in polypropylene-foam dome tweeter.

Fuse protection. Power handling 400 W cont; crossover points 400 Hz and 4.5 kHz; FR 27 Hz-20 kHz ±3 dB; sens 102 dB; imp 4 ohms. 18 x 35¾ x 17¾ in; 90 lb $540

Re-30 3-Way Speaker
Bass-reflex design with 12-in woofer, 4-in cone midrange, and 1-in metallized-Mylar dome tweeter. Fuse protection. Power handling 250 W cont; crossover points 500 Hz and 4.5 kHz; FR 28 Hz-20 kHz ±3 dB; sens 97 dB; imp 4 ohms. 16½ x 32 x 13¾ in; 57 lb $345

Re-25 3-Way Speaker
Bass-reflex design with 10-in woofer, 4-in cone midrange, and 1-in polycarbonate-dome tweeter. Power handling 150 W cont; crossover points 700 Hz and 6 kHz; FR 38 Hz-20 kHz ±3 dB; sens 95 dB; imp 6 ohms. 13 x 27¾ x 10¾ in; 40 lb $320

Cerwin Vega CVT-12

Re-6C 2-Way Center-Channel Speaker
Two 6½-in woofers and 1-in polyetherimide-dome tweeter. Magnetic shielding. Power handling 120 W cont; FR 60 Hz-20 kHz ±3 dB; sens 92 dB; imp 8 ohms. 8 x 19½ x 9⅝ in; 13 lb $269

E-D6C 2-Way Center-Channel Speaker
6½-in woofer and 1-in polyetherimide-dome tweeter. Magnetic shielding. Power handling 120 W cont; FR 60 Hz-20 kHz ±3 dB; sens 92 dB; imp 8 ohms. 8 x 19½ x 9⅝ in;13 lb $269

E-208 2-Way Speaker
Bass-reflex design with 8-in woofer and 1-in silk-dome tweeter. Die-cast aluminum woofer chassis. Power handling 100 W cont; crossover point 2 kHz; FR 40 Hz-20 kHz ±3 dB; sens 94 dB; imp 8 ohms. 18½ x 9⅞ x 10⅝ in; 19 lb $209

Re-20 2-Way Speaker
Bass-reflex design with 8-in woofer and 1-in polycarbonate-dome tweeter. Power handling 100 W cont; crossover point 4 kHz; FR 40 Hz-20 kHz ±3 dB; sens 93 dB; imp 8 ohms. 11 x 20 x 10¾ in; 26 lb $205

E-26F 2-Way Speaker
Bass-reflex design with 6½-in woofer and 1-in polycarbonate-dome tweeter. Power handling 80 W cont; FR 60 Hz-20 kHz ±3 dB; sens 90 dB; imp 8 ohms. 13 x 8¼ x 7⅝ in; 8 lb $129

Re-16B 2-Way Speaker
Bass-reflex design with 6½-in woofer and 1-in polycarbonate-dome tweeter. Power handling 80 W cont; FR 60 Hz-20 kHz ±3 dB; sens 90 dB; imp 8 ohms. 13 x 8¼ x 7⅝ in; 8 lb $125

VS Series
The following use a bass-reflex design and have self-resetting tweeter protection, 12-dB/oct slopes, 5-way binding posts, and a walnut vinyl or black woodgrain vinyl finish.

VS-150 3-Way Speaker
15-in woofer, 6½-in cone midrange, and 1-in soft-dome tweeter. Fuse protection. Power handling 400 W cont; crossover points 300 Hz and 5 kHz; FR 28 Hz-22 kHz ±3 dB; sens 102 dB; imp 4 ohms. 18 x 35½ x 18¾ in; 90 lb $539

VS-120 3-Way Speaker
12-in woofer, 4-in cone midrange, and 1-in dual-magnet balanced-drive dome tweeter. Fuse protection. Power handling 200 W cont; crossover points 500 Hz and 4 kHz; FR 28 Hz-22 kHz ±3 dB; sens 97 dB; imp 4 ohms. 16½ x 32 x 14¾ in; 57 lb $345

VS-100 3-Way Speaker
8-in woofer and 1-in balanced-drive dome tweeter. Power handling 125 W cont; crossover points 600 Hz and 5 kHz; FR 37 Hz-20 kHz ±3 dB; sens 94 dB; imp 6 ohms. 13 x 27½ x 11½ in; 40 lb $319

VS-80 2-Way Bookshelf Speaker
8-in woofer and 1-in balanced-drive dome tweeter. Power handling 100 W cont; crossover point 4 kHz; FR 38 Hz-20 kHz ±3 dB; sens 94 dB; imp 6 ohms. 11 x 20 x 11½ in; 26 lb $205

CHAPMAN
The following carry a 5-year warranty.

T-7 3-Way Speaker
10-in polylaminate-fiber woofer, 7-in composite carbon-fiber midrange, and 1-in titanium-dome tweeter. Drivers are horizontally and vertically time aligned and calibrated to ±0.5-dB tolerance; 6-dB/oct crossover at 125 Hz; 18-dB/oct crossover at 3 kHz; dual-port compression-line woofer enclosure; ducted-port midrange enclosure; OFC wiring. OFC terminals for banana plugs, spade lugs, or bare wire. Power handling 250 W; FR 20 Hz-28 kHz ±2 dB; sens 90 dB; imp 4 ohms. Solid-oak finish; other wood finishes optional. 13 x 44 x 10 in; 200 lb $2,800/pr

T-6 3-Way Speaker
10-in woofer, 5-in mineral-filled cone midrange, and 1-in silk-dome tweeter. Woofer housed in compression-line enclosure; ducted port midrange enclosure; OFC cast-crystal wiring; 6-dB/oct crossover at 150 Hz. Gold-plated terminals. Power handling 200 W; FR 32 Hz-20 kHz ±2 dB; sens 89 dB; imp 4 ohms. Optional hardwood finishes; black grille. 10 x 39 x 13 in; 160 lb $1,700/pr

VS-2 3-Way Center-Channel Speaker
Ducted-port design with two 6½-in woofers, one 3-in midrange, and one 1-in silk-dome tweeter. Magnetic shielding; OFC wiring. Power handling 120 W; FR 40 Hz-19 kHz ±2 dB; sens 89 dB; imp 4 ohms. Solid-oak finish with black grille; other finishes available. 29½ x 10½ x 12 in $1,100

VS-1 2-Way Center Speaker
Ducted-port design with 6½-in woofer and 1-in silk-dome tweeter. Magnetic shielding; ducted port enclosure; OFC wiring. Gold-plated terminals. Power handling 80 W; FR 45 Hz-19 kHz ±2 dB; sens 88 dB; imp 8 ohms. Solid-oak finish with black grille; other finishes available. 9½ x 16½ x 11 in $740

CINEMA ACOUSTICS
CSX-1200 Subwoofer/Satellite System
3-speaker system with a subwoofer with two 6½-in drivers; two injection-molded satellite speakers, each with one 4-in polymer-laminate woofer driver and one 2-in polycarbonate tweeter. Includes 2 brackets and 39-ft wire. Power handling 250 W; crossover points 180 Hz and 7 kHz; FR 40-180 Hz subwoofer, 80 Hz-20 kHz satellite; sens subwoofer 88 dB, satellite 90 dB; imp 4 or 8 ohms. Euro black or black ash finish. Subwoofer: 8½ x 21 x 14¾ in. Satellite: 5½ x 7½ x 5½ in $899

CITATION
Model 7.2 2-Way THX Speaker
Two 6½-in woofers and two 1-in soft-dome tweeters. THX-certified front speaker; diffraction-control system. Power handling 200 W max; FR 80 Hz-23 kHz ±2.5 dB; sens 91 dB; imp 4 ohms. Black lacquer oak finish. 22 x 10 x 11 in; 44 lb $1,350

Model 7.4 THX Subwoofer
Front-firing 14-in woofer. Power handling 300 W max; crossover point; FR 21-100 Hz ±3 dB; sens 91 dB; imp 6 ohms. Black lacquer oak finish. 19⅞ x 24⅛ x 13½ in; 85 lb $1,150

Model 7.3 2-Way THX Dipolar Surround Speaker
Dipolar design with two 5¼-in woofers and two 1-in soft-dome tweeters. THX-certified; point-source or diffused soundfield when used with Fosgate Audionics or Citation THX surround controller. Power handling 200 W max; FR 100 Hz-18 kHz; sens 90 dB; imp 4 or 8 ohms. Black lacquer or eggshell finish. 18 x 14 x 8 in; 28 lb $1,000

Model 5.3 2-Way THX Dipolar Surround Speaker
Dipolar design with two 5-in woofers and two 1-in soft-dome tweeters. THX-certified; point source or diffused soundfield when used with Fosgate Audionics Model Three, HK AVP1, or Citation THX surround controller. Power handling 150 W max; FR 125 Hz-18 kHz; sens 90 dB; imp 4 or 8 ohms. Black lacquer or eggshell finish. 12 x 14 x 6½ in; 22 lb $990/pr

Model 5.4 THX Subwoofer
Front-firing 12-in woofer. Power handling 200 W max; FR 30-100 Hz ±3 dB; sens 90 dB; imp 6 ohms. Black lacquered oak finish. 19 x 22 x 17½ in; 70 lb $795

Model 5.2 2-Way Speaker
5½-in woofer with 3-in voice coil and 1-in soft-dome tweeter. Response curve closely matched to Model 7.2 speaker; diffraction-control system. Power handling 150 W max; FR 90 Hz-23 kHz ±3 dB; sens 88 dB; imp 8 ohms. Black lacquered oak finish. 12 x 7½ x 6½ in; 16 lb $550

CLARK SYNTHESIS
The following have rectangular frames.

TST 3710WT In-Wall Tactile Sound Transducer
Dual ferrofluid-cooled Lexan-dome shells. Designed for underwater use. 25 oz neodymium magnet; single-point mounting; fully submersible. Works with standard audio amps and EQs. Includes 25 ft water-resistant cable and mounting hardware. Power handling 135 W rms; FR 20 Hz-20 kHz; imp 4 ohms. Clear finish. 5 lb. Mounting area: 8 x 2 in $699

TST-329 In-Wall Tactile Sound Transducer
8-in polycarbonate driver. Built-in power limiter. Includes mounting hardware. Power handling 135 W rms; FR 20 Hz-6 kHz ±3 dB; imp 4 ohms. Mounting area: 8½ x 2¼ in. Mounting depth ⅜ in $500

TST 329F In-Wall Tactile Sound Transducer
Dual ferrofluid-cooled Lexan-dome shells. Designed for outdoor or hot tub use. 20 oz neodymium magnet; splash resistant. Includes mounting hardware. Power handling 135 W rms; FR 20 Hz-20

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kHz; imp 8 ohms. Clear finish. 5 lb. Mounting area: 8 x 2 in $499

TST 229F In-Wall Tactile Sound Transducer
Dual ferrofluid-cooled dome shells. Designed for outdoor use. 20 oz neodymium magnet; splash resistant. Includes all mounting hardware. Power handling 100 W rms; FR 20 Hz-17 kHz; imp 4 ohms. Black. 5 lb. Mounting area: 8 x 2 in ...$299

CREATIVE ACOUSTICS

The following have round frames and are available in 15 different finishes. Optional mounting rings are available.

Deco 7 2-Way Ceiling Speaker
Coaxial infinite-baffle design with 6½-in woofer and ¾-in dome tweeter. Power handling 75 W rms; crossover point 3.5 kHz; FR 55 Hz-19 kHz; sens 89 dB; imp 6 ohms. Mounting diameter: 7½ in. Mounting depth 6 in $500/pr

Deco 5 2-Way Ceiling Speaker
Coaxial infinite-baffle design with 5¼-in woofer and ¾-in dome tweeter. Power handling 50 W; crossover point 3.5 kHz; FR 75 Hz-19 kHz; sens 91 dB; imp 8 ohms. Mounting diameter 7½ in. Mounting depth 5 in $400/pr

Deco 4 2-Way Ceiling Speaker
Coaxial infinite-baffle design with 3½-in woofer and ¾-in dome tweeter. Power handling 45 W; crossover point 3.5 kHz; FR 90 Hz-19 kHz; sens 90 dB; imp 8 ohms. Mounting diameter 5 in. Mounting depth 4½ in $350/pr

Deco Sub Ceiling Subwoofer
6½-in driver. Power handling 100 W; crossover point 120 Hz; FR 40-120 Hz; sens 89 dB; imp 6 ohms. Mounting depth 6 in $300

CROSBY AUDIO WORKS

CAW-I Electrostatic Speaker
Modified Quad ESL-63 with CAW-2 stands. Black ash finish standard, others available $9,995/pr

CSI

SP-750 2-Way Bookshelf Speaker
5-in Kevlar woofer and 3¾-in titanium tweeter. Quick-connect terminals. Power handling 50 W max; crossover point 2.5 kHz; FR 100 Hz-15 kHz; sens 89 dB; imp 8 ohms. Walnut finish. 13¼ x 11 x 4¾ in; 8 lb $190/pr
SP-2MB. Mounting bracket $43

CUSTOM DESIGNED SPEAKERS

The following have 1½-in-thick baffles, fuse-protected drivers, gold-plated 5-way binding posts, 12-gauge internal wiring, 1½ x 1½-in bracing, and phase-aligned crossovers with polypropylene film capacitors. Custom-built speakers are available.

WP1 3-Way Speaker
Ducted-port design with 15-in woofer, 8-in midrange, and titanium-diaphragm horn tweeter. Power handling 300 W cont; points 400 Hz and 4 kHz; FR 25 Hz-21.5 kHz –6 dB; sens 91 dB; imp 8 ohms. White-oak cabinet with doweled solid-hardwood top and bottom; hardwood-veneer plywood for sides and baffle; discrete round metal grilles for woofer and midrange. 22 x 32 x 22 in; 100 lb $3,333/pr

PM1 2-Way Speaker
Dual ducted-port design with two 12-in woofers and one titanium-dome tweeter. Power handling 300 W cont; crossover point 3.5 kHz; FR 43 Hz-28 kHz –6 dB; sens 93 dB; imp 8 ohms. Red-oak cabinet with hardwood-veneer plywood construction. 20½ x 37 x 15¼ in $3,000/pr

JCB1 3-Way Speaker
Dual ducted-port design with 15-in woofer, 8-in midrange, and titanium-dome tweeter. Power handling 300 W cont; crossover points 400 Hz and 3.5 kHz; FR 25 Hz-28 kHz –6 dB; sens 91 dB; imp 8 ohms. Red-oak cabinet with hardwood-veneer plywood construction. 20½ x 31 x 15¼ in ...$2,500/pr

DAHLQUIST

DQ-86.3cs/II 3-Way Speaker
8-in woofer, 6½-in midrange, and 1-in ferrofluid-cooled silk tweeter. Phase-array alignment with 1½-in MDF baffle; Neoplast lens for dispersion control. Power handling 160 W rms; FR 30 Hz-20 kHz; sens 90 dB; imp 6 ohms. 10 x 40 x 12½ in $1,100/pr

DQ-66.2cs/II 3-Way Speaker
Two 6½-in woofers and one 1-in ferrofluid-cooled silk tweeter. Phase-array alignment; Neoplast lens for dispersion control. Power handling 140 W rms; FR 30 Hz-20 kHz; sens 89 dB; imp 6 ohms. 8½ x 39 x 12½ in $950/pr

PDQ-8307/II 3-Way Speaker
8-in woofer, 6½-in midrange, and 1-in ferrofluid-cooled silk tweeter. Radial window bracing; Neoplast lens dispersion control. Power handling 160 W rms; FR 30 Hz-20 kHz; sens 90 dB; imp 6 ohms. 10 x 40 x 11½ in $850/pr

DQ-200.sub Powered Subwoofer
Two 10-in carbon-fiber injection-molded woofers; amp rated at 150 W rms. Isobaric driver configuration. Line- and speaker-level inputs; outputs for satellites with built-in high-pass crossover. Phase switch; auto on/off; A/V boost; variable crossover. FR 30-150 Hz. 12½ x 18 x 16 in $780

PDQ-637/II 3-Way Speaker
Two 6½-in woofers and one 1-in ferrofluid-cooled silk tweeter in D'Appolito array. Dispersion control; MDF construction. Power handling 140 W rms; FR 30 Hz-20 kHz; sens 90 dB; imp 6 ohms. 8 x 40 x 11½ in $750/pr

PDQ-110.sub Powered Subwoofer
10-in carbon-fiber injection-molded woofer; amp rated at 100 W. Auto on/off; A/V EQ; soft turn-on; phase switch; variable crossover. FR 30-120 Hz. 12½ x 18 x 16 in $600

PDQ-8207 2-Way Speaker
8-in doped-fiber-cone woofer and 1-in ferrofluid-cooled-silk tweeter. Neoplast lens dispersion control. Gold-plated binding post. Power handling 100 W rms; FR 35 Hz-20 kHz; sens 90 dB; imp 4 ohms. 8 x 36 x 11½ in $600/pr

DQ-6.2cs/II 2-Way Bookshelf Speaker
6½-in woofer and 1-in ferrofluid-cooled silk tweeter. Phase-array alignment; Neoplast lens for dispersion. Power handling 70 W rms; FR 40 Hz-20 kHz; sens 88 dB; imp 6 ohms. 8½ x 14½ x 12½ in $500/pr

PDQ-827/II 2-Way Bookshelf Speaker
8-in woofer and 1-in ferrofluid-cooled silk tweeter. Dispersion control; MDF cabinet design. Power handling 100 W rms; FR 35 Hz-20 kHz; sens 90 dB; imp 6 ohms. 10 x 24 x 11½ in $500/pr

PDQ-100.sub Powered Subwoofer
8-in polypropylene-cone woofer with rubber surround; amp rated at 100 W. MOSFET output; high-pass outputs; binding posts. Auto on/off; A/V EQ; soft turn-on; variable crossover; phase switch. FR 30-150 Hz. 16½ x 13 x 17¾ in $450

PDQ-627/II 2-Way Bookshelf Speaker
6½-in woofer and 1-in ferrofluid-cooled silk tweeter. MDF construction; dispersion control. Power handling 70 W rms; FR 40 Hz-20 kHz; sens 89 dB; imp 6 ohms. 8 x 24 x 11½ in $450/pr

DQ-66.2ctr/II 2-Way Center-Channel Speaker
Two 6½-in woofers and one 1-in ferrofluid-cooled silk tweeter. Neoplast lens for dispersion control. Power handling 140 W rms; FR 55 Hz-20 kHz; sens 89 dB; imp 8 ohms. 20 x 8½ x 10½ in $350

PDQ-55.2ctr 2-Way Center-Channel Speaker
Two 5¼-in woofers and one ¾-in silk-dome tweeter. Neoplast lens dispersion control. Gold-plated binding posts. Power handling 100 W rms; FR 55 Hz-20 kHz; sens 89 dB; imp 4 ohms. 18¾ x 7 x 9 in ...$300

PDQ-607 2-Way Bookshelf Speaker
6½-in woofer and ¾-in ferrofluid-cooled soft-dome tweeter. Power handling 70 W rms; FR 40 Hz-20 kHz; sens 89 dB; imp 6 ohms. 19 x 7¼ x 9 in $300/pr

DDA-1C 3-Way Center-Channel Speaker
Three 3-in polypropylene long-throw woofers and one 1-in silk-dome tweeter. Power handling 100 W rms; FR 100 Hz-20 kHz; sens 87 dB; imp 8 ohms. 4 x 20 x 4 in $260

DDA-1T 3-Way Speaker
Three 3-in polypropylene long-throw woofers and one 1-in silk-dome tweeter. Power handling 100 W rms; FR 100 Hz-20 kHz; sens 87 dB; imp 8 ohms. 4 x 20 x 4 in $260

PDQ-1A 2-Way Bookshelf Speaker
6½-in woofer and ¾-in ferrofluid-cooled polypropylene-dome tweeter. Point-source driver alignment. Power handling 70 W rms; FR 40 Hz-20 kHz; sens 90 dB; imp 8 ohms. 8½ x 14 x 11¾ in $250/pr

DAVID LUCAS

Double Impact Dipolar Electrostatic Speaker
Dipolar design with 18 x 72-in aluminum stators. Battery-operated bias supply that uses 2 D cells. Taps at 2, 4, 8, or 16 ohms; must be biamped. User-adjustable bias supply. Power handling 500 W; FR 30 Hz-50 kHz ±2 dB; sens 91 dB; imp 6 ohms min. Oak with black drivers. 18 x 72 x 4 in; 40 lb $499/pr
Impact. As above, 18 x 36-in aluminum stators. 18 x 36 x 4 in; 20 lb $399/pr

DCM

TimeWindow 7 3-Way Speaker
Rear-ported hybrid transmission-line design with two 9-in polymer-impregnated woofers, two 6½-in polypropylene-cone midranges each with coaxially mounted ¾-in hard-dome tweeter; ¾-in rear-firing hard-dome tweeter. Spectral balance controls. Power handling 700 W; FR 26 Hz-25 kHz; sens 92 dB; imp 4 ohms. High-gloss black. 18½ x 48 x 14 in; 70 lb $1,599

TimeWindow SurroundScape 2 3-Way Powered Speaker
Two vented 6½-in woofers, two 6½-in polypropylene woofers each with coaxially mounted ¾-in hard-dome tweeters; two ambient-field ¾-in hard-dome tweeters; woofer amp rated at 100 W, front 150 W, rear 100 W. Seven-sided enclosure; magnetic shielding. Woofer control. Sens 92 dB; imp 6 ohms. Gloss-black base and top plate; black wraparound grille. 16½ x 43½ x 12½ in; 60 lb $1,099
TimeWindow SurroundScape. Nonpowered ported version of above without subwoofer section. 15¾ x 40¾ x 12 in; 43 lb $700

TimeFrame Premiere 4-Way Speaker/Powered Subwoofer
Built-in 100-W powered subwoofer with two 8-in drivers; speaker section with one 6½-in cone midrange, one ¾-in horn-loaded neodymium tweeter, and two dome ¾-in tweeters. FR 20 Hz-20 kHz; sens 93 dB; imp 8 ohms. Gloss black tops and bottoms with black wraparound. 11 x 44 x 16 in; 60 lb $699

TimeFrame 3-Way Speaker/Powered Subwoofer
Built-in 100-W powered subwoofer with two 6½-in drivers; speaker section with one 6½-in cone mid-

range and three ¾-in horn-loaded neodymium tweeters. FR 28 Hz-20 kHz; sens 92 dB; imp 8 ohms. Gloss black tops and bottoms with black wraparound. 10 x 40 x 14 in; 50 lb $499

Sub-210 Powered Subwoofer
Ported bandpass design with two 10-in drivers; 395-W amp. Magnetic shielding. Phase switch. FR 25-120 Hz. Textured black finish. 15½ x 18 x 15⅝ in $499

OW-2 2-Way Speaker
Acoustic-suspension design with one 6½-in woofer and two ¾-in dome tweeters. Power handling 100 W; FR 80 Hz-20 kHz; sens 92 dB; imp 8 ohms. Ivory or black finish and grille. 14¼ x 10⅛ x 4⅝ in; 25 lb $458/pr

Powered KX-12 Series Two 4-Way Speaker/ Powered Subwoofer
Acoustic-suspension design with built-in 195-W powered subwoofer with 12-in driver; speaker section with 8-in cone midrange, 6½-in cone midrange, and ¾-in horn-loaded neodymium tweeter. FR 25 Hz-20 kHz; sens 100 dB; imp 8 ohms. Textured black finish with black knit grille. 15 x 38 x 14 in; 60 lb $399

W-8R 2-Way In-Wall Speaker
8-in woofer and 1-in dome tweeter. Power handling 10 W min, 100 W max; FR 30 Hz-20 kHz; sens 88 dB; imp 8 ohms. White finish with rectangular frame. Mounting area: 14 x 10 in $349/pr
W-6R. As above, 6½-in woofer. Power handling 10 W min, 60 W max; FR 40 Hz-20 kHz; sens 89 dB. Mounting area: 12 x 9 in $249/pr

SurroundScape 2-Way Center-Channel Speaker
Coaxial acoustic-suspension design with direct-firing 6-in polypropylene woofer and ¾-in hard-dome tweeter in an anti-diffraction acoustic lens. Magnetic shielding. Power handling 150 W; FR 50 Hz-20 kHz; sens 92 dB; imp 8 ohms. Black gloss side panels; black pebble finish. 22½ x 7½ x 7½ in; 15 lb $279

OW-1 2-Way Speaker
Acoustic-suspension design with one 5-in woofer and two ¾-in dome tweeters. Power handling 10 W min, 100 W max; FR 90 Hz-20 kHz; sens 92 dB; imp 8 ohms. Ivory finish and grille. 10 x 8¼ x 3¾ in; 20 lb $278/pr

W-6X 2-Way In-Wall Speaker
6½-in woofer and ¾-in dome tweeter. Power handling 60 W max; FR 60 Hz-20 kHz; sens 91 dB; imp 8 ohms. White finish with white metal grille. Round frame. Mounting diameter 9 in $199/pr
W-5XD. As above, 5¼-in woofer and 1-in cone tweeter. FR 70 Hz-20 kHz; sens 91 dB. Mounting diameter 8 in $119/pr

W-5X 2-Way Ceiling Speaker
5¼-in woofer and ¾-in dome tweeter. Power handling 15 W min, 50 W max; FR 70 Hz-20 kHz; sens 90 dB; imp 8 ohms. White finish with black or white recessed grille. Mounting diameter 8 in ...$149/pr

KX Series
The following have long-throw woofers, horn-loaded bullet-type tweeters, a black-woodgrain finish, and a removable black grille.

KX-12 Series Two 3-Way Speaker
Modified transmission-line design with 12-in woofer, 6-in midrange, and ¾-in horn-loaded tweeter. Power handling 250 W; FR 26 Hz-20 kHz; sens 99 dB; imp 8 ohms. 16 x 33 x 13¾ in; 50 lb $300
KX-10 Series Two. As above, 10-in woofer. Power handling 175 W; FR 30 Hz-20 kHz; sens 97 dB. 13¾ x 28½ x 12 in; 39 lb $249
KX-7 Series Two. As above, 6-in dual-voice-coil woofer and one ¾-in tweeter. Self-resetting protection circuitry. Power handling 125 W; FR 45 Hz-20 kHz; sens 95 dB; imp 8 ohms. 10¾ x 19 x 10¾ in; 21 lb $199

Definitive Technology BP3000TL system

KX-Sub 1 Powered Subwoofer
Modified bandpass design with 10-in woofer; 195-W amp. Magnetic shielding. FR 30-120 Hz. 14½ x 17 x 14½ in; 39 lb $299

KX-Center Series Two 2-Way Center-Channel Speaker
Acoustic-suspension design with two 6-in woofers and one ¾-in tweeter. Magnetic shielding. Power handling 100 W; FR 50 Hz-20 kHz; sens 97 dB; imp 8 ohms. 22 x 8½ x 7½ in; 15 lb $199

KX-6 Series Two 2-Way Speaker
Acoustic-suspension design with 6-in dual-voice-coil woofer and ¾-in tweeter. Power handling 125 W; FR 60 Hz-20 kHz; sens 94 dB; imp 8 ohms. 13 x 25 x 8¾ in; 10 lb $129

DEFINITIVE TECHNOLOGY

BP3000TL 3-Way Speaker/Powered Subwoofer
Transmission-line design with built-in powered subwoofer with 18-in driver and 1,000-W amp; speaker section with four 6⅝-in cast-basket woofers with polypropylene cones and two 1-in aluminum-dome tweeters with silk surrounds. Bipole design; triple-chamber monocoque cabinet; Linkwitz-Riley differential crossover; 1-, 1½-, and 2-in high-density Medite bonded to foam damping pads. Three sets of 5-way binding post for biamp and triamp terminals; separate line-level and LFE input for subwoofer. Subwoofer-level control. Includes floor spikes. Crossover points 80 Hz and 3 kHz; FR 13 Hz-30 kHz; sens 91 dB; imp 8 ohms. Gloss-black or cherry endcaps; black cloth grille. 5-yr speaker, 3-yr amp warranty. 9 x 52 x 19 in $2,250

PowerField 1800 Powered Subwoofer
18-in polymer-laminate woofer; amp rated at 500 W rms. 36-dB/oct low-pass filter variable from 40-100 Hz; 12-dB/oct high-pass filter variable from 50-100 Hz; braced monocoque cabinet. Line- and speaker-level inputs and outputs; gold-plated 5-way binding posts. Variable phase control; volume control. FR 13-125 Hz. Piano-black lacquer or natural golden-oak end caps. 20 x 20 x 22 in $1,599
PowerField 15TL. As above, 15-in driver; amp rated at 325 W rms. 24-dB/oct low- and high-pass filter. Phase control. FR 18-125 Hz. 17 x 17 x 17½ in $699

BP2000TL 3-Way Speaker/Powered Subwoofer
Combines powered subwoofer section housing 15-in side-firing driver and 500-W amp with bipolar section housing front and rear driver complements, each comprised of two 6¾-in polymer-cone woofers and transmission-line-loaded 1-in aluminum-dome tweeter with 500-W rms power handling. Linkwitz-Riley differential crossover; triple-chamber monocoque cabinet construction using 1-, 1½-, and 2-in-thick high-density Medite bonded to foam sheer damping pads; mirror-image-pair design. Speaker-level inputs; line/speaker-level subwoofer input; triampable terminals. FR 15 Hz-30 kHz. Piano-black lacquer or cherry endcaps with black wraparound cloth grille. 9 x 50 x 17 in; 120 lb $1,499
BP2002. Smaller version of above. Subwoofer with 12-in driver and 125-W amp; front and rear driver complements each with one 5¼-in midrange and one tweeter. LFE/subwoofer input with level control. FR 18 Hz-30 kHz. 7¼ x 43 x 14¾ in; 65 lb$999
BP2004. As BP2002, 10-in subwoofer. FR 19 Hz-30 kHz. 7¼ x 40 x 13 in; 55 lb $749

C/L/R 3000 3-Way Speaker/Powered Subwoofer
Transmission-line design with built-in powered subwoofer with 10-in driver and 150-W amp; speaker section with two 6⅝-in cast-basket woofers and 1-in aluminum-dome tweeter. Monocoque high-density Medite cabinet; magnetic shielding; D'Appolito array. Three pairs of 5-way binding posts; subwoofer RCA line-level input. Subwoofer-level control; adjustable vertical angle. Crossover points 100 Hz and 3 kHz; FR 19 Hz-30 kHz; sens 91 dB; imp 8 ohms. Gloss-black or cherry endcaps with wraparound cloth grille. 25 x 8⅜ x 16 in $999

PowerField 18TL Powered Subwoofer
Transmission-line design with 18-in polymer-laminate woofer; amp rated at 325 W. Monocoque cabinet. Speaker- and line-level inputs and outputs. Adjustable phase; adjustable high- and low-pass filters; level control; auto on/off. Includes spikes. Crossover point adjustable from 40-150 Hz; FR 13 Hz-150 Hz. Black. 5-yr speaker, 3-yr amp warranty. 19¼ x 20½ x 18½ in; 90 lb $999
PowerField 15TL. As above, 15-in woofer. FR 15-150 Hz. 17 x 17 x 17½ in $699

PowerField 1500TL Powered Subwoofer
15-in polymer-laminate woofer; amp rated at 325 W rms. Active crossover with independent 24-dB/oct low-pass and 12 dB/oct high-pass filters, each variable from 50-100 Hz. Line- and speaker-level inputs and outputs; gold-plated 5-way binding posts. Variable phase control; level control. FR 15-125 Hz. Piano-black lacquer. 18 x 12 x 18 in $899
As above with gloss-black end panels and wraparound cloth grille $899

BP30 2-Way Bipolar Speaker
Bipolar design with four 6⅝-in mineral-filled polymer woofers and two 1-in aluminum-dome tweeters. Phase-coherent Linkwitz-Riley crossover; symmetrically concentric driver arrays on front and rear baffles; computer-synthesized transmission-line tuning. Biampable terminals. Power handling 500 W; FR 18 Hz-28 kHz; sens 90 dB; imp 8 ohms. Black-lacquer or oak endcaps. 8½ x 46 x 15 in $699

C/L/R 2000 2-Way Center-Channel Speaker
Two 6¾-in polymer-cone woofers and one 1-in aluminum-dome tweeter. Linkwitz-Riley crossover; monocoque cabinet construction; magnetic shielding. Biampable terminals. Power handling 350 W; sens 91 dB; imp 8 ohms. Gloss-black end panels. 21½ x 8¼ x 15 in $650

PowerField 12TL Powered Subwoofer
12-in polymer-laminate cone woofer with butyl-rubber surround; amp rated at 125 W rms. Butyl rubber surround; 24-dB/oct low-pass filter variable from 40-150 Hz; 12-dB/oct high-pass filter variable at 80 Hz; braced monocoque cabinet construction. Speaker- and line-level inputs; speaker-level outputs; gold-plated 5-way binding posts. FR 19-150 Hz. Black ash woodgrain laminate finish. 13¾ x 14 x 18⅝ in $549

ProTower 400 3-Way Speaker/Powered Subwoofer
Transmission-line design with built-in powered subwoofer with two 6½-in drivers and 125-W

amp; speaker section with 6⅝-in cast-basket woofer and 1-in aluminum-dome tweeter. Direct/Reflecting design; Linkwitz-Riley crossover; magnetic shielding. 5-way binding post; separate line-level and LFE inputs. Subwoofer-level control; adjustable speaker angle. Includes floor spikes. Crossover points 100 Hz and 3 kHz; sens 91 dB; imp 8 ohms. Black or white. 5-yr speaker, 3-yr amp warranty. 7¾ x 38½ x 11 in $549

BP10B 2-Way Bipolar Speaker
Bipolar design with two 6½-in mineral-filled woofers and two 1-in ferrofluid-cooled aluminum-dome tweeters. Linkwitz-Riley crossover. Power handling 300 W; FR 20 Hz-30 kHz; sens 91 dB; imp 8 ohms. Wood or black-lacquer finish. 5-yr warranty. 8 x 42 x 12½ in $499

C/L/R 2002 2-Way Center-Channel Speaker
Two 5½-in polymer-cone cast-basket midranges and one 1-in aluminum-dome tweeter. Linkwitz-Riley crossover; unitized monocoque cabinet construction; magnetic shielding. Power handling 250 W; FR 30 Hz-30 kHz. Grille sock and gloss-black endcaps. 21 x 6¾ x 12 in $499

ProSub 100 Powered Subwoofer
Transmission-line design with 10-in woofer with polymer cone; 125-W amp. Monocoque cabinet. Speaker- and line-level inputs and outputs; LFE input. Includes spikes. Crossover point adjustable from 40-150 Hz; FR 19 Hz-150 Hz. Black or white. 5-yr speaker, 3-yr amp warranty. 11¼ x 14⅛ x 17 in $449

BPX 2-Way Bipolar Surround Speaker
Bipolar design with two 5¼-in woofers and one 1-in aluminum-dome tweeter in D'Appolito configuration on front and rear baffles. Includes wall brackets. Power handling 350 W; FR 35 Hz-30 kHz. Gloss-black endcaps. 17½ x 10 x 6½ in $450
Above with matte-white endcaps $399

BP8B 2-Way Speaker
Two 5½-in polypropylene woofers and two 1-in aluminum-dome tweeters. Proprietary computer-synthesized transmission-line tuning. Power handling 200 W max; FR 22 Hz-39 kHz; sens 91 dB; imp 8 ohms. 7 x 38 x 11 in $399

C/L/R 1000B 2-Way Center-Channel Speaker
Two 6⅞-in polypropylene woofers and one 1-in fluid-cooled aluminum tweeter. Linkwitz-Riley crossover; magnetic shielding. Power handling 300 W max; FR 25 Hz-30 kHz; sens 91 dB; imp 8 ohms. 5-yr limited parts-and-labor warranty. 21½ x 8 x 12 in $399

BP6B 2-Way Bipolar Speaker
Bipolar design with two 5¼-in polymer-cone woofers and two 1-in aluminum-dome tweeters. Proprietary computer-optimized transmission-line tuning; Linkwitz-Riley crossover; minimum-diffraction driver/baffle/grille interface; unitized monocoque construction; 1-in-thick Medite baffles. Power handling 200 W rms; FR 25 Hz-25 kHz; sens 91 dB; imp 8 ohms. Matte black ash endcaps. 35 x 7 x 11 in $299

C1B 2-Way Center-Channel Speaker
Two 5¼-in woofers and one 1-in aluminum-dome tweeter. Linkwitz-Riley crossover. Power handling 200 W; FR 25 Hz-30 kHz; sens 90 dB; imp 8 ohms. 6¾ x 19 x 8½ in $299

ProCenter C-2 2-Way Center-Channel Speaker
Transmission-line design with two 5¼-in cast-basket woofers and 1-in aluminum-dome tweeter. Linkwitz-Riley crossover; magnetic shielding. 5-way binding posts. Adjustable vertical angle. Power handling 200 W; crossover point 3 kHz; FR 45 Hz-30 kHz; sens 91 dB; imp 8 ohms. Black or white. 5-yr warranty. 20 x 6⅝ x 9¼ in $299

BP2X 2-Way Bipolar Surround Speaker
Bipolar design with two 5¼-in polypropylene-cone woofers and two 1-in aluminum-dome tweeters. Linkwitz-Riley crossover; minimum-diffraction grille/ baffle interface. Includes wall-mount plate. Power handling 200 W; FR 50 Hz-30 kHz; sens 90 dB; imp 8 ohms. Black or white. 7 x 11 x 7 in $250

ProMonitor 200 2-Way Bookshelf Speaker
6⅝-in cast-basket woofer and 1-in aluminum-dome tweeter. Built-in pivoting base/stand; Linkwitz-Riley crossover; magnetic shielding; wall mountable. 5-way binding posts. Includes pivoting base. Power handling 200 W; FR 28 Hz-30 kHz; sens 91 dB; imp 8 ohms. White or black. 5-yr warranty. 7¾ x 14 x 11 in $225

C1 jr 2-Way Center-Channel Speaker
5¼-in polypropylene woofer and 1-in aluminum-dome tweeter. Linkwitz-Riley crossover; 1-in-thick Medite baffle. Power handling 125 W; FR 55 Hz-28 kHz; sens 90 dB; imp 8 ohms. 5-yr limited parts-and-labor warranty. 17 x 6¾ x 8½ in $199

ProCenter 100 2-Way Center-Channel Speaker
Acoustic-suspension design with two 4½-in cast-basket woofers with polymer cones and one 1-in aluminum-dome tweeter with silk surround. Magnetic shielding; non-resonant cabinet with diffractionless grille/cabinet interface; D'Appolito driver array. 5-way binding posts. Adjustable vertical angle. Power handling 175 W; crossover point 3.5 kHz; FR 50 Hz-30 kHz; sens 90 dB; imp 8 ohms. Black or white. 5-yr warranty. 14¾ x 5¼ x 5¾ in; 13 lb $199

Celsius DR 2-Way Bookshelf Speaker
5¼-in mineral-filled polypropylene-cone woofer and 1-in aluminum-dome tweeter. Self-damping silk tweeter surround; Linkwitz-Riley crossover. Power handling 125 W; FR 45 Hz-28 kHz; sens 89 dB; imp 8 ohms. Black ash polymer-laminate finish. 7 x 12 x 11 in $185

BP1x 2-Way Bipolar Surround Speaker
Bipolar design with two 4⅝-in polymer woofers and two ¾-in dome tweeters. Linkwitz-Riley crossover. Power handling 125 W; FR 60 Hz-30 kHz; sens 91; imp 8 ohms. Black or white. 5-yr limited warranty. 6 x 10 x 6 in $175

ProMonitor 100 2-Way Satellite Speaker
Acoustic-suspension design with 5¼-in cast-basket woofer with polymer cone and 1-in aluminum-dome tweeter with silk surround. Non-resonant cabinet; magnetic shielding; diffractionless grille/baffle interface. 5-way binding posts. Includes pivoting stand/wall mount. Power handling 175 W; crossover point 3.5 kHz; FR 50 Hz-30 kHz; sens 90 dB; imp 8 ohms. White or black. 5-yr warranty. 5¾ x 10 x 5¾ in; 11 lb $175

Home Theater System Packages
BP3000TL Ultimate Home Theater System
Two BP 3000TL speakers, two BP 2000TL speakers, and one CLR 3000 .....$8,499

BP3000TL Home Theater System
Two BP 3000TL speakers, two BPX speakers, and one CLR 3000 .....$6,397

BP2000 Home Theater System
Two BP2000 speakers, C/L/R 2000 center speaker, and two BPX surround speakers $4,550

BP30 Home Theater System
Two BP30s, one PF 1500TL, one C/L/R 1000B, and two BP2Xs $3,250

BP2002 Home Theater System
Two BP2002 speakers, one C/L/R 2002 center speaker, and two BP2X surround speakers .$3,050

BP10B Home Theater System
Two BP10B speakers, one PF 1500 subwoofer, one C/L/R 1000B center speaker, and two BP2X surround speakers $2,594

BP8B Home Theater System
Two BP8B speakers, one PF 12H subwoofer, one C1 jr center speaker, and two BP1 surround speakers $1,999

BP6B Home Theater System
Two BP6B speakers, one PF 12H subwoofer, one C1 jr center speaker, and two BP1 surround speakers $1,825

ProCinema 400 Home Theater System
One ProCenter C-2, two ProTower 400, and two ProMonitor 200 speakers $1,747

ProCinema 200 Home Theater System
One Powerfield 12TL powered subwoofer, one Procenter C-2 center speaker, two ProMonitor 200 speakers, and two ProMonitor 100 speakers $1,648

ProCinema 100.6 Home Theater System
Four ProMonitor 100 speakers, one ProSub 100, and one ProCenter 100 .....$1,348
ProCinema 100.4. As above with two ProMonitor 100 speakers $998
ProCinema 100.3. As ProMonitor 100.4, without ProCenter 100 speaker $799

In-Wall Speakers
UIW BP 2-Way In-Wall Bipolar Speaker
Bipolar design with two 5¼-in cast-basket woofers, each with coaxially mounted 1-in aluminum-dome tweeter. Power handling 250 W; FR 28 Hz-30 kHz. Rectangular frame. Mounting area: 7 x 12½ in $499/pr

UIW 65 2-Way In-Wall Speaker
6½-in cast-basket woofer and 1-in aluminum-dome tweeter. Power handling 200 W; FR 28 Hz-30 kHz. Rectangular frame. Mounting area: 7½ x 10⅞ in $429/pr

UIW 64 2-Way In-Wall Speaker
Coaxial design with 6½-in cast-basket woofer and 1-in aluminum-dome tweeter. Power handling 200 W; FR 28 Hz-30 kHz. Round frame. Mounting diameter: 8½ in $349/pr
UIW 63. As above, ½-in dome tweeter. FR 15 Hz-25 kHz $229/pr

UIW 75 2-Way In-Wall Speaker
Two 6⅝-in cast-basket woofers and 1-in aluminum-dome tweeter. D'Appolito array. Two 5-way binding posts. High-frequency EQ control. Includes mounting template and paint guard. Power handling 300 W; crossover point 3 kHz; FR 26 Hz-30 kHz; sens 91 dB; imp 8 ohms. White. 5-yr warranty. Rectangular frame. Mounting area: 7½ x 16⅝ in $325

UIW 55 2-Way In-Wall Speaker
5¼-in cast-basket woofer and 1-in aluminum-dome tweeter. Power handling 175 W; FR 35 Hz-30 kHz. Rectangular frame. Mounting area: 6½ x 10⅜ in $299/pr

DENNESEN

Serenus 3-Way Electrostatic Speaker
One 8-in slot-loaded downward-firing woofer, one 6½-in midrange, and four electrostatic elements. Designed for minimal edge refractions and reflections. Nonresonant midrange phase plug; phase alignment. Gold-plated brass or copper connectors, veneer finish, and special grille types optional. 10 W min, 250 W max; FR 30 Hz-35 kHz; sens 90 dB; imp 8 or 5 ohms. 12 x 54 x 14 in $2,500/pr
Ample I. As above, 5-in woofer. FR 70 Hz-35 kHz. 7 x 22 x 10 in $1,500/pr

DGX

DDL-1 3-Way Speaker
Bass-reflex design. For use with DDA-1 integrated amplifier/digital signal processor. Power handling 150 W; sens 89 dB; imp 6 ohms. 15⅝ x 39½ x 11 in; 68 lb $1,500/pr
As above, DDA-1 amp/processor $2,195

DUNLAVY AUDIO LABS

The following have metal-film capacitors, machine-wound high-purity copper coils, military-spec fiberglass PC boards using high-purity copper traces, and internal wiring using proprietary copper cables. All have biampable terminals. Light or black oak finish is standard; cherry, natural cherry, or rosewood finish is optional. All carry 5-year transferable warranties.

SC-VI 4-Way Speaker
Acoustic-suspension design with two 15-in woofers, two 8-in woofers, two 5½-in midranges, and one 1-in composite-textile dome tweeter. Power handling 150 W max; FR 18 Hz-20 kHz ±1.5 dB; sens 91 dB; imp 5 ohms. 18 x 78½ x 33 in; 550 lb $24,995/pr

SC-V 4-Way Speaker
Acoustic-suspension design with two 12-in woofers, two 6½-in woofers, two 3-in cone midranges, and one 1-in composite-textile dome tweeter. Power handling 150 W max; FR 20 Hz-20 kHz ±1.5 dB; sens 91 dB; imp 5 ohms. 15 x 75½ x 27 in; 330 lb $12,995/pr

SC-IV 3-Way Speaker
Acoustic-suspension design with two 10-in woofers, two 5½-in midranges, and one 1-in composite-textile tweeter. Power handling 150 W max; FR 35 Hz-20 kHz ±1.5 dB; sens 91 dB; imp 5 ohms. 12 x 72 x 18 in; 180 lb $5,995/pr
SC-IV/A. As above, biampable terminals. FR 25 Hz-20 kHz ±1.5 dB. 190 lb $7,995/pr
SC-IV/A in cherry, natural cherry, and rosewood veneer finish $8,495/pr

SC-III 3-Way Speaker
Two 7-in woofers, two 5½-in midranges, and one 1-in composite-textile tweeter. Power handling 150 W max; FR 45 Hz-20 kHz ±1.5 dB; sens 91 dB; imp 5 ohms. 9 x 72 x 12 in; 90 lb $3,995/pr

SC-II 2-Way Speaker
Two 6½-in woofers and one 1-in composite-textile tweeter. Power handling 150 W max; FR 55 Hz-20 kHz ±1.5 dB; sens 91 dB; imp 5 ohms. 8 x 60 x 10 in; 65 lb $2,495/pr

SC-I 2-Way Speaker
Acoustic-suspension design with two 5½-in midranges and one 1-in composite textile dome tweeter. Power handling 150 W max; FR 80 Hz-20 kHz ±1.5 dB; sens 91 dB; imp 6 ohms. 8 x 20 x 10 in; 22 lb $1,195/pr

SC-I/AV 2-Way Speaker
Acoustic-suspension design with two 5½-in woofers and one 1-in soft-dome tweeter. Magnetic shielding. Power handling 150 W max; FR 65 Hz-20 kHz ±1.5 dB; sens 91 dB; imp 6 ohms. 8 x 20 x 10 in; 26 lb $750

DYNAUDIO

The following have magnesium-silicate-polymer cone drivers with aluminum voice coils, 6-dB/oct impedance-corrected crossovers, and a 5-year warranty.

Consequence 4-Way Speaker
Compound-Variovent design with two 11¾-in woofers (one internally mounted), one 6¾-in woofer, one 2⅛-in fluid-cooled soft-dome tweeter, and one ⅞-in soft-dome supertweeter. Drivers matched to 0.5-dB tolerance, and mounted with antiresonant solid-bronze front plate. Gold-plated binding posts. Power handling 250 W rms; crossover points 800 Hz, 1.4 kHz, 2.7 kHz, and 15 kHz; FR 20 Hz-30 kHz ±3 dB; sens 84 dB; imp 8 ohms. Rosewood or cherry finish. 16 x 49 x 24 in; 181 lb $24,999/pr

Confidence Series
Confidence 5 4-Way Speaker
Compound design with multilayer/multidivision sandwich enclosure with 7⅛-in woofer, internally mounted 6¼-in woofer, 2⅛-in custom Esotar soft-dome midrange, and 1-⅛-in custom Esotar soft-dome tweeter. Drivers wired point-to-point. Gold-plated binding posts. Power handling 250 W rms; FR 43 Hz-21 kHz ±3 dB; sens 85 dB; imp 4 ohms. Rosewood, cherry, black ash, or walnut finish. 8 x 47 x 15 in; 90 lb $9,999/pr

Confidence 3 2-Way Bookshelf Speaker
Bass-reflex design with 8-in woofer and 1-⅛-in custom Esotar soft-dome tweeter. Drivers wired point-to-point. WBT gold-plated binding posts and OCOS connectors. Power handling 200 W rms; crossover points 1.08 and 4 kHz; FR 32 Hz-28 kHz ±3 dB; sens 86 dB; imp 4 ohms. Rosewood, cherry, black ash, or walnut finish. 9 x 19 x 13 in; 38 lb $7,999/pr

Contour Series
Contour 3.3 3-Way Speaker
Dual-port bass-reflex design with two 8-in woofers and one 5¼-in midrange. Magnetic shielding; each driver housed in a separate asymmetrical sub-enclosure. Includes spikes and port plugs. Power handling 300 W; crossover points 350 Hz and 2.3 kHz; FR 26 Hz-24 kHz ±3 dB; sens 89.5 dB; imp 4 ohms. Rosewood. 8½ x 46½ x 14½ in; 80 lb $6,999/pr

Contour 3.0 3-Way Speaker
Bass-reflex design with 8-in woofer, 5⅞-in midrange, and 1⅛-in soft-dome tweeter. Impedance-corrected crossover; magnetic shielding. Includes port plugs and spikes. Power handling 200 W rms; FR 28 Hz-21 kHz ±3 dB; sens 86 dB; imp 4 ohms. Rosewood, cherry, black ash, or walnut finish. 8¾ x 41¾ x 14½ in; 75 lb $4,999/pr

Contour 1.8 mk II 2-Way Speaker
Dual-port bass-reflex design with two 6¾-in woofers and one 1⅛-in fluid-cooled soft-dome tweeter. Magnetic shielding. Gold-plated binding posts and OCOS connectors. Power handling 250 W rms; crossover point 2.6 kHz; FR 28 Hz-30 kHz ±3 dB; sens 88 dB; imp 4 ohms. Rosewood, cherry, black ash, or walnut finish. 8 x 38 x 12 in; 42 lb $3,199/pr

Contour 1.3 mk II 2-Way Bookshelf Speaker
Bass-reflex design with 6½-in woofer and 1⅛-in soft-dome tweeter. Impedance-corrected crossover; magnetic shielding. Includes port plugs. Power handling 150 W rms; FR 40 Hz-24 kHz ±3 dB; sens 86 dB; imp 4 ohms. Rosewood, cherry, black ash, or walnut finish. 8 x 15 x 11½ in; 19 lb . . .$2,199/pr

Contour 1.1 2-Way Bookshelf Speaker
Bass-reflex design with 5⅞-in woofer and 1⅛-in fluid-cooled soft-dome tweeter. Gold-plated binding posts. Power handling 120 W rms; crossover point 1.5 kHz; FR 47 Hz-30 kHz ±3 dB; sens 85 dB; imp 4 ohms. Rosewood, cherry, black ash, or walnut finish. 7 x 12 x 11 in; 15 lb $1,599/pr

Contour Center 2-Way Center-Channel Speaker
Variovent design with 5⅞-in woofer and 1⅛-in fluid-cooled soft-dome tweeter. Gold-plated binding posts and OCOS connectors. Adjustable woofer output level. Power handling 150 W rms; crossover points 2.6 kHz; FR 75 Hz-21 kHz ±3 dB; sens 87 dB; imp 6 ohms. Rosewood, cherry, black ash, or walnut finish. 23 x 7 x 13 in; 25 lb $1,299

Audience Series
Audience 5.1 System 30A Home Theater System
6-speaker package featuring one Audience SUB-30A powered subwoofer, one Audience C120+ center speaker, and four Audience LR120+ surround speakers $4,999
Audience 5.1 System 20A. As above with Audience SUB-20A powered subwoofer instead of SUB-30A $4,599

Audience 80 3-Way Speaker
Bass-reflex design with two 8-in woofers, one 5⅞-in midrange, and one 1⅛-in soft-dome tweeter. Thermal protection; magnetic shielding. Includes port plugs. Power handling 210 W rms. Rosewood, black ash, or light-cherry vinyl finish. 8½ x 40½ x 12⅜ in $2,399/pr
Audience 70 2-Way Speaker. As above, two 6½-in woofers and one 1⅛-in soft-dome tweeter. 8 x 35½ x 10⅛ in $1,599/pr

Audience SUB-30A Powered Subwoofer
Bass-reflex design with 12-in woofer with 4-in voice coil; 90-W amp. Infrasonic filter; thermal protection circuitry; proprietary system to link 6 subwoofers into one subwoofer channel; magnetic shielding. 3 input terminals; 2 output terminals. Phase control; output-level control; auto standby. Crossover point adjustable from 60-120 Hz; FR 23-150 Hz; sens 115 dB. Black ash vinyl finish. 22½ x 17 x 18 in; 53 lb $1,599

Audience LR120+ 2-Way Speaker
Bass-reflex design with two 5⅞-in midranges and one 1⅛-in soft-dome tweeter in D'Appolito array. Thermal protection; magnetic shielding. Includes port plugs. Power handling 200 W rms. Rosewood, black ash, or light-cherry vinyl finish. 6½ x 22½ x 12⅝ in $1,499/pr

Audience 60 2-Way Speaker
Bass-reflex design with 6½-in woofer and 1⅛-in soft-dome tweeter. Thermal protection; magnetic shielding. Includes port plugs. Power handling 150 W rms. Rosewood, black ash, or light-cherry vinyl finish. 8 x 31½ x 10⅛ in $1,199/pr

Audience SUB-20A Powered Subwoofer
Bass-reflex design with 10-in woofer with 4-in voice coil; 90-W amp. Infrasonic filter; thermal protection circuitry; proprietary system to link 6 subwoofers into one subwoofer channel; magnetic shielding. 3 input terminals; 2 output terminals. Phase control; output-level control; auto standby. Crossover point adjustable from 60-120 Hz; FR 25-150 Hz; sens 110 dB. Black ash vinyl finish. 5-yr warranty. 11 x 17 x 18 in; 31 lb $1,199

Audience 50 2-Way Bookshelf Speaker
Bass-reflex design with 6½-in woofer and 1⅛-in soft-dome tweeter. Thermal protection; magnetic shielding. Includes port plugs. Power handling 150 W rms; FR 45 Hz-22 kHz ±3 dB; sens 86 dB; imp 4 ohms. Rosewood, black ash, or light-cherry vinyl finish. 6¾ x 11⅛ x 9¾ in; 15 lb $899/pr
MasterStands. For Audience 50, Audience 40, Audience LR120+, and Contour 1.3 mkII $399/pr
TrophyStands. For Audience 50 and 40 . . .$299/pr

Audience C120+ 2-Way Center-Channel Speaker
Bass-reflex design with two 5⅞-in woofers and one 1⅛-in soft-dome tweeter in D'Appolito array. Thermal protection; magnetic shielding. Includes port plugs. Power handling 200 W rms. Rosewood, black ash, or light-cherry vinyl finish. 22½ x 6½ x 12⅝ in $749

Audience 40 2-Way Bookshelf Speaker
Bass-reflex design with 5¾-in woofer and 1⅛-in soft-dome tweeter. Thermal protection; magnetic shielding. Includes port plugs. Power handling 150 W rms. Rosewood, black ash, or light-cherry vinyl finish. 6¾ x 11⅛ x 9¾ in $699/pr

ECHELON

Model 2.0-R 3-Way Speaker
Tuned-port design with 8½-in cast-frame mineral-filled woofer, 2-in aluminum-titanium-alloy dome midrange, and 1-in aluminum-dome tweeter. 5-way metal binding posts. Power handling 11 W min, 200 W max; crossover point selectable at 1.4 kHz and 7 kHz; FR 39 Hz-20 kHz ±3 dB; sens 91 dB; imp 11 ohms. Black cloth with rosewood top and base. 11 x 47 x 15 in; 77 lb $3,495/pr
Model 2.0. As above with lacquered oak top and veneered base $2,495/pr

Model 0.5-R 3-Way Bookshelf Speaker
Tuned-port design with 6½-in long-throw trilayer-

polypropylene-composite woofer with Faraday ring; 1-in aluminum-dome tweeter and ⅜-in top-firing supertweeter. 5-way binding posts. Power handling 35 W min, 150 W max; crossover point selectable at 2.8 and 10 kHz; FR 45 Hz-20 kHz ±3 dB; sens 87 dB; imp 8 ohms. Black cloth with rosewood top and base. 9½ x 18 x 14 in; 45 lb $1,695/pr
Model 0.5. As above with lacquered oak top and veneered base $1,295/pr

EFA

Model 3 3-Way Speaker
Bass-reflex design with 10-in woofer, 7-in midrange, and ⅞-in textile-dome tweeter. Biampable terminals. Includes spiked feet. Power handling 200 W; FR 30 Hz-30 kHz ±3 dB; sens 88 dB; imp 8 ohms. Black. 5-yr warranty. 11½ x 42 x 14 in; 68 lb $3,995/pr

EGGLESTONWORKS

The following use a quasi-transmission-line design, have an MDF cabinet with Swedac adhesive, and are single wired. They are finished in gloss black with black Italian granite side panels and carry a 6-year warranty.

Ivy 3-Way Speaker
Nine 12-in woofers, twelve 6-in midranges, and one 1-in soft-dome tweeter. Pressure-driven driver configuration. Includes spikes. Power handling 2000 W; FR 14 Hz-20 kHz ±3 dB; sens 92 dB; imp 6 ohms. 18 x 73 x 36 in; 850 lb $97,000/pr

Andra 3-Way Speaker
Two 12-in woofers, two 6-in midranges, and one 1-in soft-dome tweeter. Sloped baffle. Includes spikes. Power handling 1200 W; crossover points 100 Hz and 3 kHz; FR 18 Hz-20 kHz ±3 dB; sens 87 dB; imp 7 ohms. 15 x 37½ x 18 in; 210 lb $14,900/pr
Rosa. As above, two 6-in woofers. FR 31 Hz-20 kHz ±3 dB; sens 87 dB; imp 7 ohms. 10 x 37½ x 18 in $9,900/pr

Fontaine 2-Way Speaker
Two 6-in woofers and one 1-in soft-dome tweeter. Sloped baffle. Power handling 1000 W; FR 55 Hz-20 kHz ±3 dB; sens 87 dB; imp 8 ohms. 9½ x 20½ x 15¾ in; 70 lb $4,900/pr
Stands $500/pr
Andra Center. As above, 15 x 15½ x 18 in $3,900
Isabel. As above, 6-in woofer. FR 75 Hz-20 kHz ±3 dB; sens 87 dB; imp 8 ohms. 6-yr warranty. 9½ x 14 x 12 in; 55 lb $2,900/pr
Stands $500/pr

EMERSON BY JASCO

HS5416 Home Theater System
6-speaker system with subwoofer with two 5¼-in paper drivers; two satellite speakers, each with 3¼-in paper woofers; center-channel speaker with two 4-in drivers; two rear speakers, each with two 4 inch drivers. Power handling 50 W center and rear, 100 W sub and sat. Black woodgrain finish $260

HS5402 Subwoofer/Satellite System
3-speaker system with bass-reflex subwoofer with two 5¼-in paper drivers; two rotating satellites, each with 3¼-in paper woofer and 1¼-in dome tweeter. Magnetic shielding. Power handling 100 W sub, 40 W sat; FR 36 Hz-200 Hz sub, 40 Hz-20 kHz sat; imp 4 ohms sub, 8 ohms sat. Subwoofer: 17 x 12 x 6 in. Satellite: 4½ x 8⅛ x 4¼ in $200

HS5410 2-Way Powered Speaker
4-in woofer and 2-in tweeter; amp rated at 14 W rms. Magnetic shielding. Includes volume control and installation accessories. FR 60 Hz-15 kHz. Black woodgrain finish $140/pr

HS5412 Home Theater System
3-piece system with center-channel speaker with two 4-in drivers; two surround speakers, each with two 4-in drivers. Power handling 50 W max. Black woodgrain finish. Center-channel: 4¾ x 12 x 6⅜ in. Surround: 6⅜ x 5⅞ x 4¾ in $72

Model 559 3-Way Outdoor Speaker
Acoustic-suspension design with 3-in mica-cone woofer, 2-in Mylar midrange, and 1-in piezo-dome tweeter. Includes mounting brackets. Power handling 50 W max; imp 8 ohms. Black woodgrain finish $70/pr

HS5407 3-Way Outdoor Speaker
4-in polypropylene woofer, 2-in midrange, and 1-in dome tweeter. Water-resistant design. Power handling 40 W; FR 80 Hz-15 kHz; sens 100 dB; imp 6 ohms. White or black $60/pr

EMINENT TECHNOLOGY

LFT-VI Planar Speaker
410-square-in Linear Field Transducer soft-foil/Mylar diaphragm. Diaphragm designed to remain within constant magnetic-flux field over entire displacement range; push-pull operation. Biampable terminals. Power handling 250 W max; FR 38 Hz-20 kHz ±4 dB; sens 83 dB; imp 6 ohms. 18 x 78 x 2 in; 75 lb $3,250/pr

LFT-VIII 3-Way Hybrid Planar-Magnetic Speaker
8-in woofer, 164-square-in foil/Mylar midrange diaphragm, and tweeter diaphragm. Mid- and high-frequency diaphragms suspended in constant magnetic field; steel frame. Biampable terminals. Power handling 200 W max; crossover points 180 Hz and 10 kHz; FR 31 Hz-20 kHz; sens 84 dB; imp 8 ohms. Oak finish $1,699/pr

Eminent Technology LFT-12 center-channel speaker

LFT-12 Planar-Magnetic Center-Channel Speaker
35-square-in planar-magnetic driver. Magnetic shielding. Power handling 100 W; FR 100 Hz-20 kHz; sens 86 dB; imp 8 ohms. Oak. 3-yr warranty. 26 x 10½ x 5½ in $899

LFT-11 Subwoofer/Satellite System
3-piece computer-speaker system featuring subwoofer with two 6½-in drivers and two satellites, each with 35-square-in planar-magnetic driver. Magnetic shielding. Power handling 50 W; crossover point 200 kHz; FR 35 Hz-20 kHz system; sens 86 dB; imp 8 ohms. Oak. 3-yr warranty. Subwoofer: 8 x 15 x 11 in. Satellite: 6 x 10 x 1 in $499
15 W/ch rms amp for above $100

ENERGY

ES-18XL Powered Subwoofer
18-in woofer; amp rated at 400 W. Protection circuitry. Line-level input. FR 16-100 Hz. Gloss black finish $1,700
ES-12XL. As above, 12-in driver. Amp rated at 150 W. FR 18-100 Hz $800

Baby Boomer 10.2 Powered Subwoofer
Vented design with one active and one passive 10-in driver; 1,500-W amp. Black. 12 x 12 x 12 in . . .$1,500

E:XL28p 3-Way Powered Speaker
Vented design with 8-in woofer, two 6½-in mica-cone injection-molded polypropylene midranges, and ¾-in aluminum-dome cloth-suspension tweeter; 100-W amp. Magnetic shielding. Biampable 5-way gold-plated terminals. Volume and EQ control. Crossover points 90 Hz and 2.2 kHz; FR 25 Hz-20 kHz; sens 94 dB; imp 8 ohms. Black ash, rosewood, and Northern light-birch finish. 5-yr warranty. 7 x 40 x 13 in; 35 lb $1,200/pr

Baby Boomer 12.1 Powered Subwoofer
Vented design with 12-in driver; 1,000-W amp. Black. 16 x 16 x 16 in $1,000

Take 5/ES-8 Home Theater System
6-speaker system with 8-in powered subwoofer with 100-W amp; 1 center and 4 satellite speakers, each with 3½-in long-throw woofer with carbon-graphite injection-molded cone and ¾-in multilaminate tweeter mounted on proprietary baffle in sealed enclosure. Soft-clipping circuitry. Line- and speaker-level inputs. A/V EQ adjustment on subwoofer; adjustable low-pass filter. Power handling 100 W max satellite/center; FR 29-100 Hz subwoofer, 125 Hz-20 kHz satellite, 100 Hz-20 kHz center; sens 88 dB; imp 8 ohms. High-gloss black finish. Satellite: 4 x 7 x 5 in. Center: 11 x 4 x 5 in. Subwoofer: 10 x 16 x 11 in $800
As above without subwoofer $500

E:XL26 2-Way Speaker
Vented design with two 6½-in mica-cone injection-molded polypropylene woofers with copolymer baskets and ¾-in aluminum-dome cloth-suspension tweeter. Magnetic shielding. Biampable 5-way gold-plated terminals. Power handling 150 W; crossover point 2.2 kHz; FR 37 Hz-20 kHz; sens 94 dB; imp 8 ohms. Black ash, rosewood, and Northern light-birch finish. 5-yr warranty. 7 x 36 x 13 in $750/pr
E:XL25. As above, two 5½-in mica-cone injection-molded polypropylene woofers with copolymer baskets. FR 42 Hz-20 kHz; sens 93 dB; imp 8 ohms. 7 x 33 x 12 in; 30 lb $550/pr

ES-12 MKII Powered Subwoofer
12-in woofer; amp rated at 150 W. Protection circuitry. Adjustable low-pass filter; variable phase control; A/V EQ variable. High-gloss black finish $600
ES-10 MKII. As above, 10-in driver; 100-W amp. Magnetic shielding $400
ES-8 MKII. As above, 8-in driver $300

RVSS 2-Way Bipolar/Dipolar Surround Speaker
Switchable bipolar/dipolar dual-vent design with two 5¼-in molded-polypropylene woofers and

two ¾-in ferrofluid-cooled soft-dome tweeters. Bipolar radiation pattern from 60-400 Hz; dipolar radiation pattern from 400 Hz-20 kHz. Power handling 125 W; FR 65 Hz-18 kHz ±3 dB; sens 86 dB; imp 6 ohms. Black or white. 11 x 10 x 9 in; 30 lb $550/pr

AC-300 2-Way Center-Channel Speaker
Bass-reflex design with two 5½-in injection-molded polypropylene woofers with butyl surrounds, one 5½-in injection-molded polypropylene-cone midrange and one 1-in ferrofluid-cooled multilaminate-dome tweeter. Magnetic shielding. Gold-plated biampable terminals. Power handling 175 W max; crossover points 300 Hz and 1.8 kHz; FR 47 Hz-22 kHz ±3 dB; sens 91 dB; imp 8 ohms. Gloss black finish. 7 x 19 x 12 in $500

EFX 2-Way Surround Speaker
Acoustic-suspension design with two 5¼-in woofer and two 2¾-in tweeters in dipole configuration. Power handling 100 W; FR 120 Hz-15 kHz; sens 86 dB; imp 6 ohms. Black or white finish. 10 x 10 x 16 in; 14 lb $400/pr

E:XL-R 2-Way Dipolar Surround Speaker
Vented design with 5½-in mica-cone injection-molded polypropylene woofer with copolymer baskets and ¾-in aluminum-dome cloth-suspension tweeter. Magnetic shielding. 5-way gold-plated terminals. Power handling 100 W; crossover point 2.2 kHz; FR 80 Hz-20 kHz; sens 90 dB; imp 8 ohms. Black ash or white finish. 5-yr warranty. 6 x 10 x 6 in; 8 lb $350/pr

E:XL16 2-Way Bookshelf Speaker
Vented design with 6½-in mica-cone injection-molded polypropylene woofer with copolymer baskets and ¾-in aluminum-dome cloth-suspension tweeter. Magnetic shielding. 5-way gold-plated terminals. Power handling 110 W; crossover point 2.2 kHz; FR 50 Hz-20 kHz; sens 91 dB; imp 8 ohms. Black ash, rosewood, and Northern light birch finish. 5-yr warranty. 7 x 12 x 11 in; 11 lb $300/pr

E:XL15 2-Way Bookshelf Speaker
Vented design with 5½-in mica-cone injection-molded polypropylene woofer with copolymer baskets and ¾-in hyper-dome cloth-suspension tweeter. Magnetic shielding. 5-way gold-plated terminals. Power handling 100 W; crossover point 2.5 kHz; FR 60 Hz-20 kHz; sens 90 dB; imp 8 ohms. Black ash or white finish. 5-yr warranty. 6 x 10 x 9 in; 11 lb $300/pr

EC-200 2-Way Center-Channel Speaker
Bass-reflex design with two 5½-in injection-molded woofers and one 1-in fluid-cooled multilaminate-dome tweeter. Magnetic shielding. Power handling 150 W; FR 47 Hz-20 kHz; sens 90 dB; imp 8 ohms. Black. 7 x 22 x 12 in; 23 lb $300

Tempest 2-Way Outdoor Speaker
Acoustic-suspension design with 5½-in injection-molded polypropylene woofer and 1-in ferrofluid-cooled flared-dome tweeter. Water-resistant injection-molded enclosure. Power handling 125 W; crossover point 2.2 kHz; FR 55 Hz-20 kHz ±3 dB; sens 89 dB; imp 8 ohms. Black or white finish. 12 x 9 x 6 in $300/pr

E:XL-C 2-Way Center-Channel Speaker
Vented design with two 4½-in mica-cone injection-molded polypropylene woofer with copolymer baskets and ¾-in aluminum-dome cloth-suspension tweeter. Magnetic shielding. 5-way gold-plated terminals. Power handling 100 W; crossover point 2.2 kHz; FR 60 Hz-20 kHz; sens 90 dB; imp 8 ohms. Black ash. 5-yr warranty. 17 x 5 x 9 in; 14 lb $200

EC-100 2-Way Center-Channel Speaker
Bass-reflex design with two 4½-in woofers and one ¾-in ferrofluid-cooled soft-dome tweeter. Magnetic shielding. Power handling 100 W; FR 60 Hz-20 kHz; sens 86 dB; imp 8 ohms. Black. 6 x 19 x 9 in; 17 lb $200

Take 2 2-Way Front/Surround Speaker
Acoustic-suspension design with 3½-in injection-molded polypropylene woofer and ¾-in ferrofluid-cooled multilaminate tweeter. Injection-molded enclosure; magnetic shielding. 5-way binding posts. Power handling 100 W max; crossover point 2.8 kHz; FR 125 Hz-20 kHz ±3 dB; sens 88 dB; imp 8 ohms. Gloss black finish. 7 x 4 x 5 in $180/pr
Take 1 2-Way Center-Channel Speaker. As above, FR 100 Hz-20 kHz ±3 dB; sens 89 dB; imp 8 ohms. 4 x 11 x 5 in $150

Veritas Series
Veritas v2.8 3-Way Speaker
Bass-reflex design with two injection-molded aluminum/polypropylene composite 8-in woofers with butyl-rubber surrounds, one 3-in metal-dome midrange, and one 1-in metal-dome tweeter with cotton suspension. Gold-plated biampable terminals. Adjustable spiked feet. Power handling 500 W max; crossover points 400 Hz and 2.5 kHz; FR 24 Hz-33 kHz; sens 86.5 dB; imp 6 ohms. Gloss black finish. 12 x 50 x 18 in; 100 lb $6,000/pr
Veritas v1.8. As above, two 6½-in woofers. Power handling 300 W max; FR 32 Hz-33 kHz; sens 87 dB; imp 6 ohms. Gloss-black and rosewood finish. 12 x 45 x 18 in; 80 lb $4,000/pr

Energy Audissey Bipolar Series
Audissey APS5+2 3-Way Bipolar Speaker
Bass-reflex design with built-in side-firing subwoofer with two 8-in woofers and 150-W amp; 2 front-mounted and 1 rear-mounted 5½-in carbon/mica-polypropylene woofers with molded surround; two 1-in aluminum-dome cloth-suspension ferrofluid-cooled tweeters. Subwoofer amp rated at 150 W. Biampable line- and speaker-level inputs. Variable room EQ/bass contour control. Power handling 300 W; FR 18 Hz-25 kHz ±3 dB; sens 93 dB; imp 6 ohms. High-gloss black. 9 x 46 x 16 in; 98 lb $2,500/pr
Audissey A3+2. As above without subwoofer. Power handling 225 W; FR 30 Hz-25 kHz ±3 dB; sens 91 dB; imp 6 ohms. 8 x 41 x 13 in; 55 lb $1,200/pr
Audissey A2+2. As above with only two 5½-in woofers mounted front and back. Power handling 175 W; FR 35 Hz-25 kHz ±3 dB; sens 90 dB; imp 6 ohms. 8 x 36 x 11 in; 46 lb $900/pr

Connoisseur Series
C-8 2-Way Speaker
Bass-reflex design with two 8-in injection-molded aluminum/polypropylene woofers and one 1-in aluminum tweeter. Spherex baffle. Gold-plated biampable terminals. Adjustable spiked feet. Power handling 300 W; FR 28 Hz-25 kHz; sens 90 dB; imp 8 ohms. Gloss black or gloss rosewood finish. 39 x 10 x 16 in; 64 lb $1,500/pr
C-6. As above, 6½-in woofers. Power handling 175 W; FR 30 Hz-25 kHz; sens 89 dB. 33 x 10 x 16 in; 55 lb $1,200/pr
C-4. As above, single 8-in woofer. Power handling 175 W; FR 35 Hz-25 kHz; sens 88 dB. 33 x 10 x 12 in; 43 lb $900/pr
C-2. As above, bookshelf version with single 6½-in woofer. Power handling 130 W; FR 40 Hz-25 kHz; sens 88 dB. 18 x 10 x 10 in; 38 lb $600/pr

Architectural Series
EAS-6.5 2-Way In-Wall Speaker
6½-in polypropylene woofer and 1-in titanium dome tweeter. Includes mounting kit. Power handling 100 W; FR 45 Hz-22 kHz ±3 dB; sens 87 dB; imp 8 ohms. White. Rectangular frame. Mounting area: 9 x 13 in. Mounting depth 3 in $400/pr

EAS-5.25R 2-Way In-Wall Speaker
5¼-in polypropylene woofer and ½-in polycarbonate tweeter. Includes mounting kit. Power handling 80 W; FR 60 Hz-20 kHz ±3 dB; sens 86 dB; imp 8 ohms. White. Round frame. Mounting diameter: 8 in. Mounting depth 3 in $250/pr

ENTEC

LF-20 Powered Subwoofer
Two 10-in woofers; 100-W amp. External crossover selectable at 60, 100, or 180 Hz. FR 18-180 Hz. 125 lb $5,995/pr

Model 90 2-Way Speaker
6-in midrange and 1-in tweeter. Power handling 120 W; FR 90 Hz-20 kHz. 8 x 8 x 41 in; 55 lb ..$4,150/pr

Model 1002 Powered Subwoofer
Two 10-in woofers; 100-W amp. Crossover point 60 Hz, 100 Hz, or 180 Hz; FR 18-180 Hz. High-gloss black finish. 60 lb $2,395

Model 1001 Powered Subwoofer
10-in woofer; 100-W amp. Crossover point 60 Hz, 100 Hz, or 180 Hz; FR 20-180 Hz. High-gloss black finish. 50 lb $1,895

EOSONE INTERNATIONAL

RSS705 Home Theater System
6-speaker system with powered subwoofer with 10-in driver and 95-W amp; 5 magnetically shielded satellites, each with 4-in midrange and two dipole-configured ½-in dome tweeters. Includes satellite mounting brackets. Power handling 100 W rms; FR 32 Hz-22 kHz system; sens 86 dB; imp 8 ohms. Black or white finish. Satellite: 4½ x 7 x 5½ in. Subwoofer: 17 x 13 x 15½ in; 61 lb $1,295

RSF1000 4-Way Dipolar Speaker/Powered Subwoofer
Built-in 225-W powered subwoofer section with two 10-in woofers; speaker section with two 6½-in woofers, one 4-in midrange, and two dipole-configured ¾-in titanium-dome tweeters. FR 26 Hz-22 kHz; sens 89 dB; imp 8 ohms. High-gloss black finish. 12½ x 49 x 18½ in; 115 lb $1,250

RSS702 Powered Subwoofer/Satellite System
3-speaker system with powered subwoofer with 10-in driver and 95-W amp; 2 magnetically shielded dipolar satellites, each with 4-in midrange and two dipole-configured ½-in dome tweeters. Power handling 100 W. Includes mounting bracket for satellites. FR 32 Hz-22 kHz system; sens 86 dB; imp 8 ohms. Black. Satellite: 4½ x 7 x 5½ in. Subwoofer: 17 x 13 x 15½ in; 50 lb $895

RSP912 Powered Subwoofer
Bass-reflex design with 12-in woofer; 215-W amp. Line- and speaker-level inputs; speaker-level outputs. Auto on/off. Crossover frequency variable from 50-100 Hz; FR 28-150 Hz. Black finish. 17 x 19 x 15½ in; 60 lb $850

RSF600 3-Way Dipolar Speaker
Dipolar design with two 8-in woofers, two 4-in midranges, one ¾-in titanium-dome tweeter in front, and one ½-in dome tweeter in rear. Power handling 175 W rms; FR 35 Hz-22 kHz; sens 88 dB; imp 8 ohms. High-gloss black finish. 11 x 43 x 15 in; 67 lb $600

RSR350 2-Way Surround Speaker
Acoustic-suspension design with one 6½-in woofer and two dipole-configured ¾-in titanium dome tweeters. Includes mounting bracket. Power handling 125 W rms; sens 88 dB; imp 8 ohms. Black finish. 15 x 12 x 5½ in; 34 lb $500/pr

RSF400 3-Way Dipolar Speaker
Dipolar design with 8-in woofers, 4-in midrange, ¾-in titanium-dome tweeter in front, and ½-in dome tweeter in rear. Power handling 125 W rms; FR 38 Hz-22 kHz; sens 86 dB; imp 8 ohms. High-gloss black finish. 11 x 41 x 15 in; 63 lb $475

RSC300 2-Way Dipolar Center-Channel Speaker
Dipolar design with two 5¼-in woofers, one ¾-in titanium dome tweeter in front, and one ½-in dome tweeter in rear. Power handling 125 W rms; FR 90 Hz-22 kHz; sens 88 dB; imp 8 ohms. Black finish. 17 x 7 x 8 in $325

RSF200 2-Way Dipolar Bookshelf Speaker
Dipolar bass-reflex design with 8-in woofer, ¾-in titanium-dome tweeter, and ½-in polymer-dome tweeter. Power handling 100 W; FR 48 Hz-22 kHz; sens 87 dB; imp 8 ohms. Black finish. 5-yr warranty. 8⅞ x 18¾ x 11¾ in; 21 lb $300

EPOS

ES30 3-Way Speaker
8-in woofer, 6-in polymer midrange, and 1-in aluminum-dome tweeter. Rigid cabinet construction. Triampable banana sockets. Power handling 300 W; FR 25 Hz-22 kHz; sens 88 dB; imp 6 ohms. Light- or dark-cherry wood veneer. 35½ x 9¼ x 13½ in $3,995/pr

ES22 3-Way Speaker
6-in polymer woofer, 6-in polymer midrange, and 1-in aluminum-dome tweeter. Die-cast-aluminum woofer and midrange chassis; internal cabinet bracing. Gold-plated triampable terminals. Power handling 175 W; FR 38 Hz-22 kHz; sens 87 dB; imp 6 ohms. Light- or dark-cherry wood veneer. 34⅜ x 10 x 9⅞ in $2,495/pr

ES15 2-Way Speaker
Acoustic-suspension design with 6-in polypropylene-cone woofer and 1-in aluminum-dome tweeter. No crossover. Two sets of banana jacks. Power handling 75 W; FR 40 Hz-20 kHz; sens 88 dB; imp 8 ohms. Dark or light cherry. 31 x 8 x 9¾ in .$1,895/pr
ES12 As above, bookshelf version. FR 60 Hz-20 kHz; sens 88 dB; impedance 8 ohms. 14¾ x 8 x 9¾ in $1,095/pr

ESS

Model 811 2-Way Speaker
6½-in polypropylene woofer and Heil Air-Motion transformer. Power handling 100 W max; crossover point 2 kHz; FR 45 Hz-23 kHz ±3 dB; sens 89 dB; imp 6 ohms. Piano-black, walnut, or oak finish. 18 x 9½ x 9½ in; 27 lb $358/pr

Model 620 2-Way Speaker
5¼-in cast-frame fiber woofer, 5-in rear-firing bass radiator, and 1-in ferrofluid-cooled soft-dome tweeter. Power handling 50 W max; crossover point 1.2 kHz; FR 65 Hz-20 kHz ±3 dB; sens 86.5 dB; imp 6 ohms. Walnut finish. 12 x 7 x 7½ in; 10 lb $158/pr

AMT Series
AMT Monitor 2-Way Speaker
12-in polypropylene woofer, 12-in bass radiator, and 21½-in Heil Air-Motion Transformer mid/high-frequency drive unit. Power handling 400 W; crossover point 800 Hz; FR 30 Hz-23 kHz ±3 dB; sens 93 dB; imp 6 ohms. Black walnut veneer. 39¼ x 15¾ x 15¾ in; 110 lb $1,298/pr

AMT 1D 2-Way Speaker
Pyramid-shaped cabinet with 12-in polypropylene woofer, 12-in bass radiator, and 21½-in Heil Air-Motion Transformer mid/high-frequency drive unit. Power handling 400 W; crossover point 800 Hz; FR 35 Hz-23 kHz ±3 dB; sens 91 dB; imp 6 ohms. Black walnut or oiled walnut veneer. 36½ x 16¼ x 16¼ in; 88 lb $1,098/pr

Heil Series
Heil 10H 3-Way Speaker
10-in side-firing fiber-cone woofer, 6-in polypropylene midrange, and Heil Air-Motion Transformer horn tweeter. Power handling 300 W max; crossover point 1000 Hz; FR 30 Hz-23 kHz ±3 dB; sens 92 dB; imp 6 ohms. Piano-black or walnut finish. 38½ x 17½ x 10½ in; 95 lb $900/pr

Heil 8H 2-Way Speaker
8-in polypropylene woofer and Heil Air-Motion Transformer horn tweeter. Power handling 250 W max; crossover point 800 Hz; FR 35 Hz-23 kHz ±3 dB; sens 92 dB; imp 6 ohms. Piano-black or walnut finish $549/pr

Heil 8 2-Way Speaker
8-in polypropylene woofer and Heil Air-Motion Transformer tweeter. Power handling 250 W max; crossover point 2 kHz; FR 42 Hz-23 kHz ±3 dB; sens 92 dB; imp 6 ohms. Piano-black and walnut finish. 32 x 13½ x 10½ in; 60 lb $499/pr

GERSHMAN ACOUSTICS

GAP 520-X 3-Way Speaker
10-in fiberglass woofer, 5¼-in carbon-fiber midrange, and 1-in silk-dome tweeter both on time-aligned, angled enclosure top. Double-walled, low-resonance chamber. Power handling 250 W max; FR 22 Hz-24 kHz; sens 88 dB; imp 8 ohms. Piano finish. 56-in height; 125 lb $9,495/pr

Avantgarde RX-20 3-Way Speaker
8-in long-throw fiberglass woofer, 5¼ carbon-fiber midrange, and 1-in dual chambered fabric-dome tweeter. 1-in-thick high-density board construction with internal bracing; angled enclosure top for time alignment; antidiffraction felt on front baffle between tweeter and midrange. Power handling 200 W max; FR 24 Hz-24 kHz; sens 87 dB; imp 8 ohms. Black lacquer finish. 36-in height; 75 lb $4,295/pr

Enigma 500-X 2-Way Speaker
8-in treated-paper woofer and 1-in fluid-cooled dual-chamber tweeter. High-density fiberboard construction; pyramidal shape. Power handling 200 W max; FR 30 Hz-24 kHz; sens 87 dB; imp 8 ohms. 36-in height; 70 lb $3,295/pr

Specter 2-Way Satellite Speaker
Omnidirectional design with 8-in fiberglass-cone woofer. Power handling 200 W max; FR 28 Hz-24 kHz; sens 87 dB; imp 8 ohms. 36-in height; 55 lb $1,995/pr

X-1 2-Way Bookshelf Speaker
6-in woofer and 1-in soft-fabric dome tweeter. 1-in board construction. Power handling 150 W max; FR 35 Hz-24 kHz; sens 90 dB; imp 8 ohms. 16-in height; 25 lb $1,500/pr

GERTNER AUDIO

The following carry a 6-year parts-and-labor warranty. Standard finishes are hand-rubbed and oiled cherry or rosewood veneer.

Celtech3096E 3-Way Speaker
Angled-port design with 12-in woofer, 10-in woofer, and ferrofluid-cooled dome tweeter. Antiresonance tweeter mounting. Gold-plated solid-brass biampable binding posts. Power handling 300 W cont; FR 24 Hz-20 kHz; sens 96 dB; imp 8 ohms. 17½ x 49½ x 16 in; 130 lb $4,800/pr

Celtech1596 2-Way Speaker
Angled-port design. 10-in woofer and ferrofluid-cooled dome tweeter. Antiresonance tweeter mounting. Gold-plated solid-brass binding posts. Power handling 150 W cont; FR 30 Hz-20 kHz; sens 96 dB; imp 8 ohms. 14¼ x 32 x 14 in; 62 lb $2,150/pr

Celtech1091 2-Way Speaker
Angled-port design with 8-in woofer and ferrofluid-cooled dome tweeter. Gold-plated binding posts. Power handling 100 W cont; FR 35 Hz-20 kHz; sens 91 dB; imp 8 ohms. 13¼ x 24 x 12 in; 40 lb $1,395/pr

Celtech RS100 2-Way Dipolar Surround Speaker
Acoustic-suspension design with two 5¼-in woofers and two ⅜-in dome tweeters. One pair of gold-plated inputs. Power handling 100 W; crossover point 4500 Hz; FR 65 Hz-20 kHz ±5 dB; sens 90 dB; imp 6 ohms. Cherry finish; black-knit cloth grille. 7 x 12½ x 8 in; 10 lb $525/pr

Celtech CS100 2-Way Center-Channel Speaker
Acoustic-suspension design with two 5¼-in woofers and one 1-in dome tweeter. One pair of gold-plated inputs. Power handling 100 W; crossover point 3200 Hz; FR 58 Hz-20 kHz ±5 dB; sens 88 dB; imp 6 ohms. Cherry finish; black-knit cloth grille. 20 x 7 x 8 in; 14 lb $365

GOLD SOUND

The following are available as kits or assembled. Basic kits include speaker components, crossovers, 12-gauge cable, gold double-banana posts, plans, and instructions. Dome tweeters are ferrofluid-cooled. Options include Kimber Kable and assembled black or oak-finished cabinets made of oak hardwood and veneer with black knit grilles. Prices are for fully-assembled speakers except where noted.

Model 1494 4-Way Speaker
18-in JBL 2245H cast-frame woofer with 4-in voice coil, 10-in JBL 2123H cast-frame woofer with 3-in voice coil, JBL 2415 titanium diaphragm midrange, and JBL 2404H biradial tweeter. 12-dB/oct crossovers. Midbass, midrange and tweeter controls. Power handling 600 W rms; crossover points 150 Hz, 200 Hz, and 5 kHz; FR 25 Hz-21 kHz ±3 dB; sens 95 dB; imp 8 ohms. Available as kit only. 5-yr warranty. 29 x 46 x 19 in $3,399/pr

Model 1194 3-Way Speaker
15-in JBL 2235H cast-frame woofer with 4-in voice coil, 8-in JBL 2118H cast-frame midrange, and JBL 2404H biradial horn tweeter. Midrange and tweeter controls. Power handling 300 W rms; crossover points 300 Hz and 5 kHz; FR 28 Hz-21 kHz ±3 dB; sens 93 dB; imp 8 ohms. 5-yr warranty.
18 x 44 x 14 in $3,299/pr
Kit $1,899/pr
Kit with assembled cabinet $2,699/pr

Model 1095 3-Way Speaker
15-in JBL 2235H cast-frame woofer with 4-in voice coil, two symmetrical-arrayed 6½-in Dynaudio 17W75 butyl-surround polypropylene-cone midranges with 3-in voice coils, and 1-in linen-dome tweeter with damped rear chamber. Power handling 300 W rms; crossover points 200 Hz and 3 kHz; FR 28 Hz-25 kHz ±3 dB; sens 93 dB; imp 8 ohms. 18 x 44 x 14 in $3,099/pr
Kit $1,699/pr
Kit with assembled cabinet $2,499/pr

Model 996 3-Way Speaker
15-in JBL 2235H cast-frame woofer with 4-in voice coil, 8-in JBL 2118H cast-frame midrange, and 1-in JBL titanium-dome tweeter. Power handling 300 W rms; crossover points 300 Hz and 4 kHz; FR 28 Hz-25 kHz ±3 dB; sens 93 dB; imp 8 ohms. 5-yr warranty $2,789/pr
Kit $1,389/pr
Kit with assembled cabinet $2,189/pr

Model 794 2-Way Speaker
Symmetrical-array design with two 10-in Gold Sound butyl-surround polypropylene woofers, two 6½-in Dynaudio 17W75 butyl-surround polypropylene-cone midranges with 3-in voice coils, and one 1-in linen-dome tweeter with acoustically damped rear chamber. Power handling 400 W rms; FR 28 Hz-21 kHz ±3 dB; sens 93 dB; imp 4 or 8 ohms. 18 x 44 x 14 in $2,399/pr

All of the terms and abbreviations used in the listings are explained in the Glossary starting on page 243.

Kit $1,399/pr
Kit with assembled cabinet $1,799/pr

Model 695 3-Way Speaker
Symmetrical-array design with two 12-in Gold Sound butyl-surround polypropylene woofer, two 6½-in Dynaudio 17W75 butyl-surround polypropylene-cone midranges with 3-in voice coils, and one 1-in linen-dome tweeter with damped rear chamber. Power handling 200 W rms; crossover points 90 Hz and 3 kHz; FR 32 Hz-20 kHz ±3 dB; sens 90 dB; imp 4 or 8 ohms. 14 x 37 x 11 in $2,199/pr
Kit $1,199/pr
Kit with assembled cabinet $1,599/pr

Model 9 3-Way Speaker
15-in JBL 2235H cast-frame woofer with 4-in voice coil, 6½-in midrange, and 1-in linen-dome tweeter with acoustically damped rear chamber. Power handling 300 W rms; crossover points 300 Hz and 4 kHz; FR 35 Hz-25 kHz ±3 dB; sens 93 dB; imp 8 ohms. 16 x 28 x 17 in $2,099/pr
Kit $1,499/pr
Kit with assembled cabinet $2,099/pr

Dynaudio C 2-Way Bookshelf/Center-Channel Speaker
Symmetrical-array design with two 6½-in Dynaudio 17W75 butyl-surround polypropylene-cone woofers with 3-in voice coils and one 1-in linen-dome tweeter with acoustically-damped rear chamber. Magnetic shielding optional. Power handling 300 W rms; crossover point 3 kHz; FR 54 Hz-20 kHz ±3 dB; sens 92 dB; imp 4 or 8 ohms. 10 x 12 x 22 in $1,799/pr
Kit $999/pr
Kit with assembled cabinet $1,499/pr

Model 594 3-Way Speaker
Symmetrical-array design with one 12-in Gold Sound butyl-surround polypropylene woofer, two 6½-in Seas butyl-surround polypropylene-cone midranges, and one 1-in aluminum-dome tweeter with acoustically damped rear chamber. Power handling 200 W rms; crossover points 90 Hz and 3 kHz; FR 32 Hz-20 kHz ±3 dB; sens 90 dB; imp 4 or 8 ohms. 14 x 37 x 11 in $1,799/pr
Kit $699/pr
Kit with assembled cabinet $1,199/pr

Model 494 3-Way Speaker
One 10-in Gold Sound butyl-surround polypropylene woofer, two 4½-in Seas butyl-surround polypropylene-cone midranges, and one 1-in aluminum-dome tweeter with acoustically damped rear chamber. Power handling 150 W rms; crossover points 120 Hz and 3 kHz; FR 25 Hz-20 kHz ±3 dB; sens 90 dB; imp 4 or 8 ohms. 14 x 25 x 11 in $1,449/pr
Kit $649/pr
Kit with assembled cabinet $949/pr

Model 394 3-Way Speaker
12-in Gold Sound polypropylene-cone woofer, 5-in midrange, and 1-in linen-dome tweeter. Power handling 200 W rms; FR 36 Hz-20 kHz ±3 dB; sens 90 dB; imp 4 or 8 ohms. 14 x 25 x 11 in $1,299/pr
Kit $549/pr
Kit with assembled cabinet $849/pr

Dynaudio B 2-Way Bookshelf Speaker
6½-in butyl-surround polypropylene-cone woofer with 3-in voice coil and 1-in linen-dome tweeter with acoustically-damped rear chamber. Magnetic shielding optional. Power handling 150 W rms; crossover point 3 kHz; FR 58 Hz-20 kHz ±3 dB; sens 89 dB; imp 4 or 8 ohms. 8 x 16 x 10 in $1,139/pr
Kit $699/pr
Kit with assembled cabinet $999/pr

Model 294 3-Way Speaker
8-in Gold Sound polypropylene-cone woofer, 4-in midrange, and 1-in linen-dome tweeter. Power handling 100 W rms; FR 37 Hz-20 kHz ±3 dB; sens 90 dB; imp 4 or 8 ohms. 12 x 9 x 10 in $1,099/pr
Kit $449/pr
Kit with assembled cabinet $649/pr

Dynaudio A 2-Way Bookshelf/Center-Channel Speaker
5-in Dynaudio 15W75 butyl-surround polypropylene-cone woofer with 3-in voice coil and 1-in linen-dome tweeter with acoustically-damped rear chamber. Magnetic shielding optional. Power handling 150 W rms; crossover point 3 kHz; FR 67 Hz-20 kHz ±3 dB; sens 89 dB; imp 4 or 8 ohms. 8 x 12 x 7 in $899/pr
Kit $529/pr
Kit with assembled cabinet $699/pr

Model .8 2-Way Bookshelf/Center-Channel Speaker
Symmetrical-array design with two 4½-in butyl-rubber surround polypropylene-cone woofers and one 1-in ferrofluid-cooled linen-dome tweeter. Magnetic shielding optional. Power handling 100 W rms; crossover point 3.5 kHz; FR 61 Hz-20 kHz ±3 dB; sens 89 dB; imp 4 or 8 ohms. 8 x 16 x 7 in $799/pr
Kit $399/pr
Kit with assembled cabinet $599/pr

Model .6 2-Way Bookshelf Speaker
6½-in Gold Sound butyl-rubber surround polypropylene-cone woofer and 1-in ferrofluid-cooled linen-dome tweeter. Magnetic shielding. Power handling 60 W rms; crossover point 3.5 kHz; FR 58 Hz-20 kHz ±3 dB; sens 91 dB; imp 4 or 8 ohms. 10 x 16 x 8 in $499/pr
Kit $179/pr
Kit with assembled cabinet $389/pr

Model .4 2-Way Minispeaker
4½-in butyl-rubber surround polypropylene-cone woofer and 1-in ferrofluid-cooled linen-dome tweeter. Power handling 60 W rms; crossover point 3 kHz; FR 68 Hz-20 kHz ±3 dB; imp 4 or 8 ohms. 8 x 6 x 5 in $449/pr
Kit $199/pr
Kit with assembled cabinet $349/pr

Model .2 2-Way Bookshelf Speaker
5¼-in polypropylene and ¾-in ferrofluid-cooled dome tweeter. Magnetic shielding optional. Power handling 50 W rms; crossover point 3 kHz; FR 68 Hz-20 kHz ±3 dB; sens 91 dB; imp 4 or 8 ohms. 8 x 12 x 7 in $389/pr
Kit $139/pr
Kit with assembled cabinet $269/pr

Performance Pro Speaker Kits
The following are only available as kits and are designed for theaters, clubs, DJs, and live music. All kits include drivers, crossover parts, 12-gauge wire, metal grilles for all cone drivers, overload relays and level controls on midranges and dynamic tweeters, 8 stacking corners, 4 handles, plans, and ¼-in gold-plated double-banana-jack connectors.

Model Pro Double JBL 18 4-Way Speaker
Two 18-in JBL 2241 cast-frame woofers with 4-in voice coils, one 10-in JBL 2123 cast-frame woofer with 3-in voice coil, one 8 x 10-in horn with JBL 2416H titanium-diaphragm midrange, and one JBL 2404H 5 x 5-in tweeter. Woofer-, midrange-, and tweeter-level controls. Power handling 1,200 W rms; crossover points 200 Hz, 2 kHz, and 10 kHz; FR 29 Hz-21 kHz ±3 dB; sens 101 dB; imp 4 or 8 ohms. 5-yr warranty $2,199

Model Pro Double JBL 15 4-Way Speaker
Two 15-in JBL 2226 cast-frame woofers with 4-in voice coils, two 7-in cast-frame cone midranges, 8 x 10-in constant directivity horn with JBL 2416H titanium-diaphragm midrange, and two 3 x 7-in horn tweeters. Woofer and midrange controls. Power handling 1200 W rms; crossover points 400 Hz, 2 kHz and 10 kHz; FR 38 Hz-21 kHz ±3 dB; sens 100 dB; imp 4 or 8 ohms $1,549

Model Pro JBL 15 4-Way Speaker
15-in JBL 2226 cast-frame woofer with 4-in voice coil, 7-in cast-frame cone midrange, 8 x 10-in constant directivity horn with JBL 2416H titanium-diaphragm midrange, and 3 x 7-in horn tweeter. Woofer and midrange controls. Power handling 600 W rms; crossover points 400 Hz, 2 kHz and 10 kHz; FR 39 Hz-21 kHz ±3 dB; sens 97 dB; imp 4, 8, or 16 ohms $979

Model Pro Double Celestion 15 4-Way Speaker
Two 15-in Celestion woofers, two 7-in cast-frame cone midranges, 8 x 10-in constant directivity horn with JBL 2416H titanium-diaphragm midrange, and two 3 x 7-in horn tweeters. Woofer and midrange controls. Power handling 400 W rms; crossover points 400 Hz, 2 kHz, and 10 kHz; FR 47 Hz-21 kHz ±3 dB; sens 99 dB; imp 4 ohms $969

Model JBL M15 3-Way Speaker
15-in JBL 2226 cast-frame woofer with 4-in voice coil, 7-in cast-frame cone midrange, and 3¾-in horn tweeter. Power handling 600 W rms; crossover points 500 Hz and 5 kHz; FR 49 Hz-21 kHz ±3 dB; sens 97 dB; imp 4, 8, or 16 ohms. 30 x 17 x 14 in $879

Model Pro Celestion 15 4-Way Speaker
15-in Celestion woofer, 7-in cast-frame cone midrange, 8 x 10-in constant directivity horn with JBL 2416H titanium-diaphragm midrange, and 3 x 7-in horn tweeter. Woofer and midrange control. Power handling 200 W rms; crossover points 400 Hz, 2 kHz and 10 kHz; FR 49 Hz-21 kHz ±3 dB; sens 96 dB; imp 8 ohms. 44 x 18 x 14 in $649

Model Celestion M15 3-Way Speaker
15-in Celestion woofer, 7-in cast-frame cone midrange, and 3¾-in horn tweeter. Power handling 200 W rms; crossover points 500 Hz and 5 kHz; FR 54 Hz-21 kHz ±3 dB; sens 96 dB; imp 8 ohms. 30 x 17 x 14 in $419

Model Pro Celestion 12 2-Way Speaker
12-in Celestion woofer and 3 x 7-in horn tweeter. Power handling 200 W rms; crossover point 3 kHz; FR 55 Hz-21 kHz ±3 dB; sens 97 dB; imp 8 ohms. Unassembled kit. 20 x 16 x 15 in $149

Subwoofers
Kits include speaker components, two gold double-banana jacks, 12-gauge cable, plans, and instructions. Optional black or oak-finish cabinets. Optional internal 300-W rms subwoofer amp with auto turn-on, line- and speaker-level inputs, and 40-180 Hz crossover for $449. Optional 120 Hz 12 dB passive crossover kit for $99/pair.

GS-15JBLpro Subwoofer
15-in JBL 2226 cast-frame woofer with 4-in voice coil. Power handling 600 W; FR 30-150 Hz ±3 dB; sens 97 dB; imp 4, 8, or 16 ohms. 5-yr warranty. 44 x 18 x 14 in $999
Kit $429
Kit with assembled cabinet $929

GS-15JBL Subwoofer
15-in JBL 2235H cast-frame woofer with 4-in voice coil. Power handling 300 W rms; FR 23-150 Hz ±3 dB; sens 93 dB; imp 8 ohms. 5-yr warranty. 44 x 18 x 14 in $989
Kit $399
Kit with assembled cabinet $898

GS-15 Subwoofer
15-in Gold Sound butyl-surround polypropylene woofer with dual voice coils. Power handling 200 W rms; FR 27-150 Hz ±3 dB; sens 93 dB; imp 4 or 8 ohms. 44 x 18 x 14 in $789
Kit $199
Kit with assembled cabinet $698

GS-18JBL Model Subwoofer
18-in JBL 2245H cast-frame woofer with 4-in voice coil. Power handling 600 W rms; FR 22-150 Hz ±3 dB; sens 95 dB; imp 8 ohms. Kit version. 5-yr warranty. 29 x 46 x 19 in $599

GS-12 Subwoofer
12-in Gold Sound butyl-surround polypropylene

woofer with dual-voice-coil. Power handling 200 W rms; FR 29-150 Hz ±3 dB; sens 90 dB; imp 4 or 8 ohms $389
Kit $149
Kit with assembled cabinet $299

AV Series
The following have shielded speaker components, two gold double-banana jacks, 12-gauge cable, plans, and instructions. Speakers are available fully assembled at a higher price. Built black or oak-finished cabinets made with oak hardwoods and veneers are also available.

Dynaudio Cav 2-Way Speaker
Symmetrical-array design with two 6½-in Dynaudio 17W75 drivers and one 1-in ferrofluid-cooled linen-dome tweeter. Power handling 300 W rms; crossover point 3 kHz; FR 54 Hz-20 kHz ±3 dB; sens 92 dB; imp 4 or 8 ohms. 12 x 22 x 10 in $999/pr

Model .9av 2-Way Bookshelf/Center-Channel Speaker
Symmetrical-array design with two 6½-in butyl-rubber surround polypropylene-cone woofers and one 1-in ferrofluid-cooled dome tweeter. Magnetic shielding. Power handling 160 W rms; crossover point 3.5 kHz; FR 64 Hz-20 kHz ±3 dB; sens 93 dB; imp 4 ohms. 8 x 16 x 7 in $779/pr

Dynaudio Bav 2-Way Speaker
6½-in Dynaudio 17W75 driver and 1-in ferrofluid-cooled linen-dome tweeter. Power handling 150 W rms; crossover point 3 kHz; FR 62 Hz-20 kHz ±3 dB; sens 89 dB; imp 4 or 8 ohms. 7 x 16 x 10 in $699/pr

Dipole 2-Way Dipolar Surround Speaker
Dipolar design with two 5¼-in polypropylene woofers and two ¾-in ferrofluid-cooled polypropylene tweeters. Power handling 100 W rms; crossover point 3.5 kHz; FR 80 Hz-20 kHz ±3 dB; sens 91 dB; imp 8 ohms. 12 x 12 x 5 in $450/pr

Model .8av 2-Way Bookshelf Speaker
Symmetrical-array design with two 5¼-in polypropylene woofers and one 1-in ferrofluid-cooled dome tweeter. Power handling 140 W rms; crossover point 3.5 kHz; FR 61 Hz-20 kHz ±3 dB; sens 89 dB; imp 4 ohms. 8 x 16 x 7 in $249/pr

Model .6av 2-Way Bookshelf Speaker
6½-in polypropylene driver and 1-in ferrofluid-cooled linen-dome tweeter. Power handling 80 W rms; FR 58 Hz-20 kHz ±3 dB; sens 89 dB; imp 8 ohms. 10 x 16 x 8 in $169/pr

Model .2av 2-Way Bookshelf Speaker
5¼-in woofer and ¾-in ferrofluid-cooled dome tweeter. Power handling 70 W rms; crossover point 3.5 kHz; FR 68 Hz-20 kHz ±3 dB; sens 90 dB; imp 8 ohms. 8 x 12 x 7 in $129/pr

In-Wall Series
The following are designed for ceiling or in-wall installations. Prices include round or square grilles with cloth or paintable plastic and baffle plates for retrofit or new construction. Except for the subwoofers, all feature European ferrofluid-cooled tweeters and have 12-dB/oct crossovers with aircore coils. All drivers are weatherproof polypropylene. Acoustically matched, internally braced back boxes are available for $78/pair.

Model 8NeoCx 2-Way Speaker
Coaxial design with 8-in woofer and 1-in neodymium tweeter. Power handling 150 W rms; crossover point 2 kHz; FR 29 Hz-20 kHz ±3 dB; sens 92 dB; imp 4 or 8 ohms. 11-in round or square grille $599/pr

Model 6NeoCx 2-Way Speaker
Coaxial design with 6½-in woofer with butyl-surround and 2-in tweeter. Power handling 100 W rms; crossover point 2 kHz; FR 32 Hz-20 kHz ±3 dB; sens 92 dB; imp 4 or 8 ohms. 11-in round or square grille $549/pr

Model 8AC 2-Way Speaker
Coaxial design with 8-in woofer and 2-in tweeter. Power handling 100 W rms; crossover point 2 kHz; FR 39 Hz-20 kHz ±3 dB; sens 92 dB; imp 4 or 8 ohms. 11-in round or square grille $399/pr

Model 6AC 2-Way Speaker
Coaxial design with 6½-in woofer butyl-surround and 2-in tweeter. Power handling 100 W rms; crossover point 2 kHz; FR 45 Hz-20 kHz ±3 dB; sens 90 dB; imp 4 or 8 ohms $369/pr

Model 8C 2-Way Speaker
Coaxial design with 8-in woofer and ¾-in tweeter. Power handling 70 W rms; crossover point 400 Hz; FR 44 Hz-25 kHz ±3 dB; sens 90 dB; imp 4 or 8 ohms. 11-in round or square grille $299/pr

Model 844/8 Subwoofer
8-in woofer with butyl-rubber surround and 2-in vented voice coil. Power handling 150 W rms; FR 28-200 Hz ±3 dB; sens 92 dB; imp 4 or 8 ohms. 11-in round or square grille $289/pr

Model 6C 2-Way Speaker
Coaxial design with 6½-in woofer with butyl-surround and ¾-in tweeter. Power handling 70 W rms; crossover point 4 kHz; FR 49 Hz-25 kHz ±3 dB; sens 90 dB; imp 4 or 8 ohms $269/pr

Model 824/8 Subwoofer
8-in woofer with butyl-rubber surround and 1½-in vented voice coil. Passive crossover or 300 W in-wall power amp with variable electronic crossover optional. Power handling 100 W rms; FR 30-200 Hz ±3 dB; sens 92 dB; imp 4 or 8 ohms. 11-in round or square grille $219/pr

GRADIENT
The following carry a 5-year warranty.

Revolution 3-Way Speaker
Dipolar design with two 12-in woofers in open dipolar cabinet and one 7-in fiberglass midrange with coaxially mounted 1-in dome tweeter. 4 biampable inputs. Power handling 250 W; crossover points 200 Hz and 2.8 kHz; FR 30 Hz-20 kHz ±3 dB; sens 86 dB; imp 8 ohms. Cherry wood. 18 x 39 x 16 in; 50 lb $3,995/pr

Evidence 3-Way Speaker
Bass-reflex design with 8-in side-firing woofer and 7-in fiberglass midrange with coaxially mounted 1-in dome tweeter. Tunable low-frequency settings. 4 biampable inputs. Bass-level control. Power handling 200 W; crossover points 200 Hz and 2.8 kHz; FR 45 Hz-20 kHz ±2 dB; sens 86 dB; imp 4 ohms. Cherry wood. 35 x 8 x 12 in; 50 lb $2,995/pr

Intro 2-Way Speaker
Coaxial bass-reflex design with 7-in fiberglass driver and 1-in aluminum-dome tweeter. Point-source driver configuration; Helmholtz radiator. Gold-plated 5-way binding posts. Power handling 150 W; crossover point 2.8 kHz; FR 60 Hz-20 kHz ±2 dB; sens 86 dB; imp 8 ohms. Cherry wood. 9 x 33 x 8 in; 27 lb $1,500/pr

CC-1 2-Way Center-Channel Speaker
Coaxial design with 7-in fiberglass woofer and 1-in aluminum-dome tweeter. Point-source driver configuration; cabinet designed to eliminate early reflections; magnetic shielding. 2 inputs. Includes bracket for wall mounting. Power handling 100 W; crossover point 2.8 kHz; FR 80 Hz-20 kHz ±3 dB; sens 87 dB; imp 8 ohms. White or cherry wood. 21 x 8 x 7 in; 14 lb $799

DS-1 2-Way Speaker
Dipolar design with two 5-in polypropylene woofers and two ½-in polypropylene dome tweeters. Trapezoidal enclosure. 2 inputs. Power handling 100 W; crossover point 3 kHz; FR 90 Hz-20 kHz ±3 dB; sens 88 dB; imp 8 ohms. Black, white, or cherry wood. 6½ x 18 x 7½ in; 10 lb $599

GREEN MOUNTAIN AUDIO
The following models use internal golden-ratio baffles to critically damp rear wave energy. They carry a 5-year warranty.

Contura 5-Way Speaker
Bass-reflex design with 15-in paper/carbon-fiber cone woofer with 140 oz magnet; 8-in paper/carbon-fiber cone woofer; 4-in Kevlar/Nomex honeycomb midrange; 1⅛-in ferrofluid-cooled polymer-impregnated linen-dome tweeter; ½-in aluminum-ribbon supertweeter. Acoustic 1st-order transmission from mid to low frequencies; No crossover for high-frequency signals; silver wiring. WBT 5-way binding terminals. Adjustable driver positions. Power handling 650 W; crossover point selectable at 80 Hz, 320 Hz, 3 kHz, and 9 kHz; FR 30 Hz-27 kHz ±0.5dB; sens 90 dB; imp 4 ohms. Cast marble with lacquered cherry finish standard; black-gloss and custom veneers available. 24 x 60 x 28 in; 240 lb $14,500/pr

Diamante III 3-Way Speaker
Transmission-line design with 8-in paper/carbon-fiber cone woofer, 4-in Kevlar-cone midrange with vented voice coil, and 1⅛-in ferrofluid-cooled polymer-impregnated linen-dome tweeter. Silver wiring. WBT 5-way binding-posts. Includes adjustable spikes. Power handling 350 W; FR 55 Hz-21 kHz ±0.5 dB; sens 90 dB; imp 6.5 ohms. Malachite, black/white, or peach marble standard; custom colors available. 13½ x 43 x 13½ in; 105 lb $7,500/pr

Continuum 2 3-Way Speaker
Bass-reflex design with 12-in paper/carbon-fiber cone woofer with vented voice coil; 5¼-in Kevlar carbon-fiber midrange; 1⅛-in polymer-impregnated ferrofluid-cooled dome tweeter. Silver wiring. WBT 5-way binding-posts. Adjustable driver positions. Power handling 250 W; crossover points 270 Hz and 3 kHz; FR 32 Hz-22 kHz ±0.5 dB; sens 91 dB; imp 7 ohms. Black gloss standard; lacquered veneers available. 14½ x 56 x 20 in; 120 lb $5,500/pr
WBT Triamp connectors for above $400
WBT biamp connectors $200

Continuum 1 3-Way Speaker
Bass-reflex design with 10-in single-pressed paper-cone woofer with vented voice coil; 4½-in polymer-laminated paper-cone midrange; 1⅛-in polymer-impregnated ferrofluid-cooled linen-dome tweeter. Silver-copper wiring. WBT 5-way binding-posts. Adjustable driver-binding position. Includes carpet-piercing adjustable spikes. Power handling 200 W; FR 50 Hz-20 kHz ±0.5 dB; sens 90 dB; imp 6.5 ohms. Black gloss with black cast-marble standard; custom veneer finishes available. 12¾ x 43 x 14 in; 68 lb $1,995/pr
Curved-cloth grilles for above $200

Continuum 15 SW Subwoofer
Bass-reflex design with 15-in paper/carbon-fiber cone driver with rubber surround. Silver-copper wiring. Flat response across full Dolby Digital and DTS LFE-channel bandwidths. Power handling 500 W; FR 30 Hz-130 Hz ±0.5 dB; sens 90 dB; imp 4 ohms. Matte-black standard; black gloss or custom veneers available. 24 x 23 x 28 in; 120 lb $1,795/pr
WBT binding posts for above $100

Continuum 0.5 2-Way Bookshelf Speaker
Bass-reflex design with 6-in paper-cone woofer with vented voice coil; 1⅛-in ferrofluid-cooled polymer-linen dome tweeter with hex-wound voice coil. Silver-copper wiring. Power handling 100 W; crossover point 3 kHz; FR 80 Hz-20 kHz ±0.5 dB; sens 90 dB; imp 4 ohms. Hand-rubbed lacquer over solid cherry with black-cast marble face; available in matte black, gloss black, custom colors, and select hardwoods. 9½ x 15⅜ x 12 in; 25 lb $1,450/pr
WBT biamp connectors $400
Adjustable-height stands with carpet-piercing adjustable spikes $400
WBT binding posts $200

Continuum 12 SW Subwoofer
Bass-reflex design with 12-in paper/carbon-fiber

cone woofer with rubber surround. Silver-copper wiring. Flat response across full Dolby Digital and DTS LFE-channel bandwidths. Power handling 500 W; FR 35 Hz-150 Hz ±0.5 dB; sens 90 dB; imp 4 ohms. Matte-black standard; black gloss or custom veneers available. 16 x 18 x 19 in; 70 lb $1,395
WBT binding posts $100

HALES

The following carry a 5-year parts-and-labor warranty and are available with wood finishes.

Transcendence Eight 3-Way Speaker
Acoustic-suspension design with two 10-in aluminum woofers, 5¼-in magnesium midrange, and 2-in ribbon tweeter. 4-in thick anti-diffraction sculpted baffle; 2-in thick wall construction; Cardas wire and binding post. Two pair binding post. Includes spikes. FR 22 Hz-26 kHz; sens 91 dB. 48 x 12 x 21 in; 152 lb $9,790/pr

Transcendence Five 3-Way Speaker
Acoustic-suspension design with 10-in polypropylene woofer, 5¼-in magnesium midrange, and 1-in aluminum-dome tweeter. 4-in thick anti-diffraction sculpted baffle; 2-in-thick wall construction; Cardas wire and binding post. Two pair binding post. Includes spikes. FR 23 Hz-26 kHz; sens 88 dB; imp 4 ohms. 40 x 11 x 17 in; 106 lb $5,990/pr
Transcendence Three. As above, 8-in polypropylene woofer. 1-in-thick wall construction. FR 28 Hz-26 kHz; sens 88 dB; imp 4 ohms. 36 x 10 x 17 in; 87 lb $4,490/pr

Transcendence Two 2-Way Speaker
Acoustic-suspension design with 8-in woofer and 1-in aluminum-dome tweeter. Anti-diffraction sculpted baffle; 1-in thick wall construction; Cardas wire and binding post. Two pair binding post. Includes spikes $2,990/pr

Revelation Three 3-Way Speaker
Acoustic-suspension design with 10-in polypropylene woofer, 4½-in polypropylene midrange, and 1-in aluminum-dome tweeter. 4-in thick anti-diffraction sculpted baffle; 1-in thick wall construction; Cardas wire and binding post. One pair binding post. Includes spikes. FR 23 Hz-26 kHz; sens 87 dB; imp 4 ohms. 40 x 11 x 14 in; 96 lb $2,195/pr
Revelation Two. As above, 8-in polypropylene woofer. FR 28 Hz-26 kHz; sens 87 dB; imp 6 ohms. 36 x 10 x 13 in; 67 lb $1,695/pr

Transcendence One 2-Way Speaker
Bass-reflex design with 6½-in magnesium woofer and 1-in aluminum-dome tweeter. 1½-in thick anti-diffraction sculpted baffle; 1-in thick wall construction; Cardas wire and binding post. Two pair binding post. FR 46 Hz-26 kHz; sens 86 dB; imp 4 ohms. 15 x 7 x 13 in; 25 lb $1,990/pr

Revelation Zero Powered Subwoofer
Two 12-in polypropylene woofers; 400-W amp. 1-in thick wall construction. Selectable crossover. FR 19 Hz-200 Hz $1,495

Revelation One 2-Way Speaker
Bass-reflex design with 6½-in woofer and 1-in aluminum-dome tweeter. 1½-in thick baffle; 1-in thick wall construction; Cardas wire and binding post. One pair binding post. FR 40 Hz-26 kHz; sens 86 dB; imp 8 ohms. 15 x 7 x 13 in; 26 lb $995/pr

Revelation Center
3-Way Center-Channel Speaker
Acoustic-suspension design with two 6½-in polypropylene woofers, 4½-in polypropylene midrange, and 1-in aluminum-dome tweeter. 1½-in thick baffle; ¾-in thick wall construction; Cardas wire and binding post; magnetic shielding. One pair binding post. FR 50 Hz-26 kHz; sens 88 dB; imp 6 ohms. 8 x 20 x 16 in; 31 lb $995

HARMONIC PRECISION

Echelon 3-Way Speaker
Hybrid transmission-line design with 8-in mineral-filled polypropylene-cone woofer, 2-in aluminum-dome midrange, and 1-in aluminum-dome tweeter. First-order series-wired crossover; time/phase-aligned baffle. 1 pr all-metal gold-plated binding posts. Includes 4 Audio Points with each cabinet. Power handling 10 W min, 200 W max; crossover points 1.5 kHz and 7 kHz; FR 35 Hz-20 kHz; sens 91 dB; imp 12 ohms. Oak trim with black-knit grille cloth. 10½ x 45 x 13½ in; 69 lb $2,495/pr

Caravelle 2-Way Speaker
Hybrid transmission-line design with 6½-in polypropylene-cone woofer and 1-in aluminum-dome tweeter. First-order series-wired crossover; time/phase-aligned baffle. 1 pair all-metal gold-plated binding posts. Power handling 20 W min, 150 W max; crossover point 2.6 kHz; FR 41 Hz-21 kHz; sens 87 dB; imp 8 ohms. Oak trim with black knit-grille cloth. 9 x 18 x 13 in; 34 lb $1,095/pr

Alfa 2-Way Speaker
Bass-reflex design with 6½-in long-throw polypropylene-cone woofer and ¾-in fabric-dome tweeter. Bass-optimization circuitry; 1-in MDF front baffle; first-order crossover; phase-array alignment. Gold-plated biampable binding posts. Magnetic shielding optional. Power handling 140 W; crossover point 3 kHz; FR 45 Hz-22 kHz; sens 88 dB; imp 8 ohms. Black ash finish with black cloth grille. 8½ x 13 x 12⅛ in; 16 lb $525/pr

Cygma 2-Way Center-Channel Speaker
Bass-reflex design with two 4-in paper-cone woofers and one ¾-in metallized polypropylene-dome tweeter. Magnetic shielding. 1 pair gold-plated 5-way binding posts. Power handling 50 W rms; crossover point 10 kHz; FR 45 Hz-20 kHz; imp 8 ohms. Black matte. 3-yr limited warranty. 20 x 5 x 10 in; 19 lb $189

HARRISON LABORATORY

Power Mowse 3-Way Powered Speaker
One 6½-in proprietary air-pump woofer, two 3-in proprietary midranges, and two 2-in Motorola tweeters; 5 amps, each rated at 30 W with electronic crossover. 9 x 30 x 5 in; 20 lb $500

HSU RESEARCH

HRIBR Subwoofer System
16 vented-cylindrical enclosures (8 per stereo channel), each with two 18-in woofers. Outboard Class A, 24-dB/oct Linkwitz-Riley tube crossover for system. Power handling 6,000 W rms; FR 10-100 Hz ±1 dB system. 5-yr warranty. 2,400 lb $80,000

VTF Series
VTF-1 Powered Subwoofer
One 12-in driver and two 12-in passive radiators; outboard 800-W amp. Designed for use as coffee table or end table. 24-dB/oct Linkwitz-Riley high- and low-pass crossovers; magnetic shielding. Polarity and crossover input/output switches; level control. Various finishes optional. Crossover point adjustable from 28-155 Hz. 5-yr speaker, 1-yr amp warranty $1,299

VTF-2 Powered Subwoofer
Dual-ported bass-reflex design with 10-in driver; 150-W amp. Designed for use as coffee table or end table. 18 dB/oct slope infrasonic filter. 5-yr speaker, 1-yr electronics warranty. 16 x 14 x 18½ in; 50 lb $499

V Series
The following vented subwoofers have cylindrical enclosures that enable them to be used as coffee or end tables. Optional finishes available at extra cost.

HRSW12Va Subwoofer
Dual-ported bass-reflex design with 12-in driver. Magnetic shielding. Special top finishes optional. Power handling 250 W rms; FR 20-100 Hz ±1 dB; sens 92 dB; imp 4 ohms. Black knit cloth over cylinder. 5-yr warranty. 65 lb $550
As above with outboard 450-W amp. Class A 24-dB/oct Linkwitz-Riley high- and low-pass crossovers; polarity and crossover switches; level control. Crossover point variable from 28-155 Hz. Amp: 17¼ x 4¼ x 14 in; 25 lb $1,099

HRSW10V Subwoofer
10-in driver. Magnetic shielding. Power handling 150 W rms; FR 25-100 Hz ±2 dB; sens 91 dB; imp 6 ohms. Granite top; black knit cloth over cylinder. 5-yr warranty. 39 lb $350
As above with outboard 150-W amp. Class A, 12-dB/oct low-pass filter variable from 40-180 Hz; polarity switch; level control. 1-yr amp warranty. Amp: 8 x 10 x 7 in; 14 lb $575

TN Series
The following have vented cylindrical enclosures that take up less than 0.8 sq ft of floor space.

TN1220HO Subwoofer
12-in driver. 4-in port; magnetic shielding. Power handling 250 W rms; FR 20-100 Hz ±1 dB; sens 92 dB; imp 4 ohms. Black metal grille top; black knit over cylinder. 5-yr warranty. 30 lb $450
As above with 450-W amp. Class A 24-dB/oct Linkwitz-Riley high- and low-pass crossover; polarity and crossover switches; level control. Crossover point variable from 28-155 Hz. 1-yr amp warranty. Amp: 17¼ x 4¼ x 14 in; 25 lb $999

TN1225HO Subwoofer
12-in driver. 4-in port; magnetic shielding. Power handling 250 W rms; FR 25-100 Hz ±1 dB; sens 92 dB; imp 4 ohms. 25 lb $350
As above with 450-W amp. Class A 24-dB/oct Linkwitz-Riley high- and low-pass crossover; polarity and crossover switches; level control. Crossover point variable from 28-155 Hz. 1-yr amp warranty. Amp: 17¼ x 4¼ x 14 in; 25 lb $899

INFINITY

EMIT, EMIT-R, EMIT-N, EMIM, and L-EMIM are proprietary planar drivers.

IRS Sigma 4-Way Planar Speaker
Hybrid-planar design with 12-in woofer, 6½-in woofer, EMIM midrange, and two EMIT tweeters in dipole configuration. Midrange-, woofer- and tweeter-level controls. Power handling 500 W; crossover point 160 Hz, 600 Hz, and 3.8 kHz; FR 30 Hz-42 kHz ±2 dB; sens 87 dB; imp 4 ohms. 18 x 58 x 16 in; 195 lb $10,000

IRS-Omega 4-Way Speaker
Hybrid-planar design with 12-in woofer, 6½-in midrange, and one front- and one rear-firing emit tweeter. 4th-order Linkwitz-Riley crossover. Biampable terminals. Midrange- and tweeter-level controls. Power handling 500 W; crossover point selectable at 180 Hz, 450 Hz, or 4 kHz; FR 30 Hz-42 kHz ±2 dB; sens 87 dB; imp 4 ohms. 14½ x 48 x 14 in; 120 lb $4,000

QPS-1 Surround Speaker
Bass-reflex design with four 3-in drivers. Includes keyhole plate for wall mounting. Power handling 100 W; FR 80 Hz-20 kHz; sens 88 dB; imp 8 ohms
$349/pr

Compositions Series
P-FR Prelude 4-Way Speaker/Powered Subwoofer
Bass-reflex design with one built-in 12-in powered subwoofer, four 5¼-in dome midranges, two 4-in dome woofers, and one 1-in dome tweeter; 150-W amp. Crossover point 110 Hz, 350 Hz, and 3 kHz; FR 25 Hz-20 kHz ±2 dB; sens 96 dB; imp 6 ohms. Black cloth grille, and finish. 8 x 54 x 20 in; 78 lb . . .$1,949

Overture 3 3-Way Speaker/Powered Subwoofer
300-W powered subwoofer section with four 6½-in

drivers; speaker section with two 5¼-in cone midranges and one 1-in silk-dome tweeter. Woofer-level control. Crossover points 350 Hz and 3 kHz; FR 33 Hz-20 kHz; sens 94 dB; imp 8 ohms. Black cloth grille. 7 x 46 x 16 in; 59 lb $1,400

Overture 1 3-Way Speaker/Powered Subwoofer
150-W powered subwoofer section with one 8-in driver; speaker section with two 4-in cone midranges and one 1-in silk-dome tweeter. Woofer-level control. Crossover points 200 Hz and 3 kHz; FR 38 Hz-20 kHz; sens 92 dB; imp 8 ohms. Black finish with black cloth grille. 6 x 12 x 6 in; 28 lb . .$1,349/pr

Overture 2 3-Way Speaker/Powered Subwoofer
150-W powered woofer section with two 6½-in drivers; speaker section with two 5¼-in cone midranges and one 1-in silk-dome tweeter. Woofer-level control. Crossover points 350 Hz and 3 kHz; FR 35 Hz-20 kHz; sens 93 dB; imp 8 ohms. Black cloth grille. 7 x 39 x 16 in; 47 lb $1,099

P-CC 3-Way Center-Channel Speaker
Acoustic-suspension design with two 5¼-in woofer, two 4-in dome midranges, and one 1-in dome tweeter. Power handling 150 W; crossover point 350 Hz and 3 kHz; FR 80 Hz-20 kHz ±2 dB; sens 96 dB; imp 6 ohms. Black cloth grille, black finish. 23 x 6 x 8 in; 21 lb $779

Quadrapole 2-Way Surround Speaker
Acoustic-suspension design with one 5¼-in woofer and four 3½-in dome tweeters. Power handling 100 W; FR 50 Hz-15 kHz ±2 dB; sens 90 dB; imp 8 ohms. 14 x 10 x 4 in; 7 lb $669/pr

High Power Subwoofer Series
The following have a phase switch and variable crossover.

HPS-1000 Powered Subwoofer
One 15-in woofer and two 15-in side-firing passive radiators; 1,000-W amp. Dolby Digital input; line- and speaker-level inputs and outputs. A/V EQ. FR 18-150 Hz $1,349

HPS-500 Powered Subwoofer
One 12-in down-firing woofer and two 12-in side-firing passive radiators; 500-W amp. Dolby Digital input; line- and speaker-level inputs and outputs. A/V EQ. FR 22-150 Hz. 16½ x 21¾ x 19 in . . .$999

HPS-250 Powered Subwoofer
Bass-reflex design with 12-in woofer; 250-W amp. Line- and speaker-level inputs; speaker-level output. FR 25-180 Hz. 5 x 18 x 18 in $779

Reference Series
RS-10 3-Way Powered Speaker
One 10-in woofer, dual 6½-in midranges, and one 1-in silk dome tweeter; 150-W amp. Line-level or Dolby Digital input. Bass-level control. FR 30 Hz-20 kHz; sens 93 dB; imp 8 ohms. Black woodgrain $899

RS-8 3-Way Powered Speaker
Bass-reflex design with 8-in woofer, 6½-in midrange, and 1-in silk dome tweeter; 100-W amp. Magnetic shielding. Line-level or Dolby Digital input. Bass-level control. FR 32 Hz-20 kHz; sens 92 dB; imp 8 ohms. Black woodgrain. 5-year warranty. 7½ x 40 x 12½ in $679

RS-5 2-Way Speaker
Bass-reflex design with two 6½-in woofers and one 1-in silk-dome tweeter. Power handling 200 W; crossover point 3 kHz; FR 35 Hz-20 kHz; sens 92 dB; imp 8 ohms. Black cloth grille. 8 x 40 x 12½ in; 40 lb $399

RS-3 2-Way Speaker
Bass-reflex design with 6½-in woofer and 1-in silk-dome tweeter. Power handling 125 W; crossover point 3 kHz; FR 40 Hz-20 kHz; sens 89 dB; imp 8 ohms. Black cloth grille. 8 x 16 x 10 in; 14 lb $399/pr

RS-2 2-Way Speaker
Bass-reflex design with 6½-in woofer and ½-in dome tweeter. Power handling 100 W; FR 50 Hz-20 kHz; sens 89 dB; imp 8 ohms. Black cloth grille. 8 x 13 x 10 in; 12 lb $329/pr

RS-4 2-Way Speaker
Bass-reflex design with 6½-in woofer and 1-in silk-dome tweeter. Power handling 175 W; crossover point 3 kHz; FR 38 Hz-20 kHz; sens 90 dB; imp 8 ohms. Black cloth grille. 8 x 36 x 14 in; 34 lb . . .$279

RS-1 2-Way Speaker
Bass-reflex design with 5¼-in woofer and ½-in dome tweeter. Power handling 100 W; crossover point 3.5 kHz; FR 55 Hz-20 kHz; sens 88 dB; imp 8 ohms. Black cloth grille. 7 x 11 x 8 in; 8 lb . .$229/pr

Subwoofer Series
Powered Subwoofer
15-in woofer; outboard 200-W amp. Line- and speaker-level outputs. Phase switch $599

BU-2 Plus Powered Subwoofer
12-in woofer; amp rated at 75 W rms. Crossover points 50-200 Hz; FR 30-150 Hz ±3 dB. Black finish with black-cloth grille. 14 x 14 x 14 in; 50 lb . . .$499

BU-1 Plus Powered Subwoofer
8-in woofer; amp rated at 75 W rms. Crossover points 50 - 150 Hz; FR 45-150 Hz ±3 dB. Black finish with black-cloth grille. 11 x 11 x 11 in; 26 lb . . .$399

ERS Series
The following Environmental Reference Standard speakers have white metal grilles and a white finish.

ERS 840 2-Way In-Wall Speaker
8-in woofer and EMIT-N tweeter. Crossover point 3.8 kHz; FR 50 Hz-45 kHz; sens 85 dB; imp 8 ohms. 11 x 15 x 4 in; 7 lb $580/pr

ERS 640 2-Way In-Wall Speaker
6-in woofer and ¾-in dome tweeter. Power handling 60 W; FR 60 Hz-22 kHz; sens 85 dB; imp 8 ohms. 9 x 13 x 3 in; 5 lb $340/pr

Outrigger 2-Way Outdoor Speaker
5¼-in woofer and 1-in dome tweeter. Power handling 80 W; FR 100 Hz-20 kHz; sens 88 dB; imp 8 ohms. 8 x 10 x 7 in; 7 lb $329/pr

ERS 360 2-Way In-Wall Speaker
5¼-in woofer and ¾-in dome tweeter. Power handling 40 W; crossover point 6 kHz; FR 75 Hz-22 kHz; sens 88 dB; imp 8 ohms. Round frame. Mounting diameter: 8 in. Mounting depth 3 in $250/pr

ERS 540 2-Way In-Wall Speaker
5¼-in woofer and ¾-in dome tweeter. Power handling 40 W; crossover point 6 kHz; FR 75 Hz-22 kHz; sens 85 dB; imp 8 ohms. 8 x 8 x 8 in; 4 lb . . .$250/pr

ERS 440 In-Wall Speaker
4-in woofer. Power handling 30 W; FR 90 Hz-15 kHz; sens 85 dB; imp 8 ohms. Round frame. Mounting diameter: 7 in. Mounting depth 3 in . . .$180/pr

Minuette Series
L-MPS TP Center/Surround System
Package includes one Minuette center speaker and four L-MPS surround speakers $549
Minuette Center/Surround System. Package includes one Minuette center-channel speaker and four MPS surround speakers. 17 lb $389
Minuette Surround System. Package includes four MPS speakers. 11 lb $279

L-MPS 2-Way Bookshelf Speaker
Dual 3½-in woofers and one ½-in tweeter. Includes wall bracket. Power handling 100 W; FR 150 Hz-20 kHz; sens 87 dB; imp 8 ohms. 4¾ x 10½ x 3¾ in $229/pr

Minuette MPS 2-Way Surround Speaker
Acoustic-suspension design with 3½-in woofer and ½-in dome tweeter. Power handling 100 W; crossover point 5 kHz; FR 200 Hz-20 kHz; sens 88 dB; imp 8 ohms. 5 x 7 x 4 in; 4 lb $169/pr

Minuette 2-Way Center-Channel Speaker
Acoustic-suspension design with two 3½-in woofers and one ½-in dome tweeter. Power handling 100 W; crossover point 5 kHz; FR 150 Hz-20 kHz; sens 88 dB; imp 8 ohms. Black finish with black cloth grille. 10 x 5 x 4 in; 5 lb $149

Studio Monitor Series
The following use a bass-reflex design and have a black cloth grille.

SM 255 3-Way Speaker
One 15-in woofer, two 5¼-in cone midranges, and one 1-in dome tweeter. Tweeter-level control. Power handling 300 W; crossover points 400 Hz and 2.5 kHz; FR 42 Hz-20 kHz ±3 dB; sens 103 dB; imp 8 ohms. 17¾ x 42 x 14⅜ in $549

SM 225 3-Way Speaker
12-in woofer, 5¼-in cone midrange, and 1-in dome tweeter. Tweeter-level control. Power handling 200 W; crossover points 450 Hz and 2.5 kHz; FR 48 Hz-20 kHz ±3 dB; sens 101 dB; imp 8 ohms. 14¾ x 37 x 14⅜ in $425

SM 185 2-Way Bookshelf Speaker
8-in woofer and 1-in dome tweeter. Power handling 125 W; crossover point 2.8 kHz; FR 70 Hz-20 kHz ±3 dB; sens 98 dB; imp 8 ohms. 11¼ x 18 x 10½ in $359/pr

SM 215 3-Way Speaker
10-in woofer, 5¼-in cone midrange, and 1-in dome tweeter. Tweeter-level control. Power handling 175 W; crossover points 450 Hz and 2.5 kHz; FR 58 Hz-20 kHz ±3 dB; sens 100 dB; imp 8 ohms. 13¼ x 32½ x 12½ in $329

SM Video 2-Way Center-Channel Speaker
Two 6½-in woofers and one 1-in dome tweeter. Power handling 175 W; crossover point 2.2 kHz; FR 78 Hz-20 kHz ±3 dB; sens 93 dB; imp 8 ohms. Black finish. 21 x 8 x 9 in; 18 lb $329

SM 165 2-Way Bookshelf Speaker
6½-in woofer and ¾-in dome tweeter. Power handling 100 W; FR 74 Hz-20 kHz ±3 dB; sens 95 dB; imp 8 ohms. 8 x 13 x 7 in; 13 lb $278/pr

Center-Channel Series
The following have a black cloth grille and black finish.

CC-3 2-Way Center-Channel Speaker
Two 5¼-in woofers and one 1-in silk-dome tweeter. Midrange- and tweeter-level control. Power handling 150 W; crossover point 3 kHz; FR 80 Hz-20 kHz; imp 8 ohms. 20 x 7 x 8 in $449

CC-2 2-Way Center-Channel Speaker
Two 5¼-in woofers and one ½-in dome tweeter. Midrange-level control. Power handling 100 W; crossover point 3.5 kHz; FR 90 Hz-20 kHz; imp 8 ohms. 18 x 7 x 8 in $329

CC-1 2-Way Center-Channel Speaker
Two 4-in woofers and one ½-in dome tweeter. Power handling 100 W; FR 100 Hz-20 kHz; imp 8 ohms. 14 x 5 x 6 in $199

JACKSON

AU-3 3-Way Bookshelf/Satellite Speaker
5¼-in carbon-fiber woofer, 1-in polyamide-dome tweeter, and ⅜-in polycarbonate supertweeter. Power handling 100 W; crossover points 2.5 and 12 kHz; FR 80 Hz-20 kHz ±3 dB; sens 87 dB; imp 8 ohms. Satin ivory, black or custom finish. 7½ x 13½ x 4¼ in $1,300/pr

AU-20 Subwoofer
10-in polypropylene dual-voice-coil woofer and

15-in electromechanically damped slot-loaded passive radiator. Power handling 200 W; FR 26-100 Hz ±3 dB; sens 90 dB; imp 8 ohms. Satin ivory, black or custom finish. 17½ x 18 x 18½ in . .$1,250

JAMO

Digital CineMaster Home Theater System
6-speaker system with 800-W rms powered subwoofer with dual 15-in drivers; one center and two front speakers, each with two 5¼-in woofers, two 3¼-in midranges, and one 1-in tweeter; two surround speakers, each with four 4½-in woofers and two 1-in dome tweeters. 5-pin XLR line-level input and output for subwoofer; coaxial digital link inputs and outputs for center, front, and surround speakers. FR 16-200 Hz dB sub, 80 Hz-20 kHz center and front, and surround; sens sub 120 dB , front/center 112 dB , surround 110 dB. Subwoofer: 18¼ x 23 x 23 in; 30 lb. Center: 10⅛ x 24⅝ x 5⅝ in. Front: 21 x 17⅜ x 6 in; 43 lb. Surround: 14⅛ x 17¼ x 7 in; 30 lb $30,000

Oriel 3-Way Speaker
Bass-reflex design with two 8-in woofers, one 6½-in Kevlar midrange, and one 1⅛-in dome tweeter. Lateral cabinet reinforcement with sections or hardened glass; antiresonant MDF panels; individual chambers for each woofer; concrete plinth with 4 spikes. 24k gold-plated triampable terminals. Power handling 300 W; crossover points 100 Hz and 3 kHz; FR 20 Hz-22 kHz; sens 87 dB; imp 6 ohms. Engraved name plate of owner finish. 15⅝ x 70 x 11⅝ in $4,900

Jamo Home THX Speaker System
7-speaker system with two bass-reflex subwoofers, each with one 12-in driver; three 3-way front/center speakers, each with two 5-in woofers, two 3-in midranges, and one 1-in tweeter; two dipolar surround speakers, each with three 4-in woofers and two 1-in tweeters. THX certified; front-firing reflex subwoofer port. Gold-plated binding posts for all inputs. Magnetic shielding. Includes brackets for wall mounting. Power handling 250 W stereo, 200 W surround; 30 Hz-200 Hz –4 dB sub, 80 Hz-20 kHz ±2 dB front/center, 100 Hz-20 kHz surround; sens 88 dB stereo or surround; imp 4 ohms front/center or surround, 8 ohms subwoofer. Black ash front/center and subwoofer finishes; black- or white-ash surround finish. Subwoofer: 17¼ x 30 x 16½ in. Front/center: 17¼ x 21¾ x 5½ in. Surround: 16½ x 10¼ x 5⅜ in $4,499

Concert 11 3-Way Speaker
Bass-reflex design with 6½-in woofer, 6½-in midrange, and 1-in tweeter. Power handling 200 W max. Mahogany or cherry finish. 11 x 40¾ x 15 in; 33 lb $1,800

Concert 8 2-Way Bookshelf Speaker
Bass-reflex design with 6½-in woofer and 1-in tweeter. Power handling 170 W max. Mahogany or cherry finish. 9⅝ x 15 x 12¼ in; 12 lb $1,200

Concert Center 3-Way Center-Channel Speaker
Bass-reflex design with two 6½-in woofers, one 6½-in midrange, and one 1-in tweeter. Power handling 150 W max. Mahogany or cherry finish. 5-yr warranty. 22 x 8 x 11¾ in; 10 lb $800

SW-300 Subwoofer/Satellite System
3-speaker system featuring adjustable bass-reflex subwoofer with two 8-in drivers; two satellites, each with one 4-in woofer and one ¾-in tweeter. Push-pull subwoofer-driver alignment. 24k gold-plated screw terminals. Power handling 100 W x 2 sub, 50 W sat; crossover point 3.5 kHz; FR 30-200 Hz sub, 80-20 kHz sat; sens 90 dB sub and sat; imp 8 ohms sub and sat. Subwoofer: 13¼ x 8⅛ x 19 in. Satellite: 6 x 8 x 3 in $699
Subwoofer only $399
SAT-300. Satellite only $149

Atmosphere 2-Way Speaker
Bass-reflex design with 5¼-in woofer and 1-in dome tweeter. Designed for wall hanging. Integrated 20-W halogen lamp; cabinet interior without straight surfaces; multiple-layer lead cladding in cabinet for resonance damping. 360° rotation when used with supplied wall bracket. Power handling 60 W; crossover point 3 kHz; FR 40 Hz-20 kHz; sens 88 dB; imp 8 ohms. 10½ x 14½ x 6⅜ in $499

SW-200 Subwoofer/Satellite System
3-speaker system featuring subwoofer with two 8-in drivers and two satellites, each with 4-in woofer and ¾-in tweeter. Power handling 100 W x 2 sub, 50 W sat; FR 35-150 Hz subwoofer, 80-20 kHz satellite; sens 90 dB sub and sat; imp 8 ohms sub and sat. Subwoofer: 19½ x 15⅜ x 9¼ in; satellite: 6 x 8¾ x 3½ in $499
Subwoofer only $329
SAT-200. Satellite only $119

SW-400E Powered Subwoofer
Bass-reflex design with 8-in woofer; amp rated at 90 W rms. Gold-plated line-level and speaker-level terminals. Continuously adjustable phase between 0° and 180°. Crossover point variable from 70-150 Hz; FR 40-150 Hz; sens adjustable from 76-100 Hz. 9⅜ x 15⅜ x 19⅜ in $499

Center 200 2-Way Center-Channel Speaker
Bass-reflex design with two 5-in woofers and one 1-in dome tweeter. Magnetic shielding; +3-, 0-, –3-dB treble switch. Power handling 80 W; crossover point 2 kHz; FR 70 Hz-20 kHz; sens 90 dB; imp 8 ohms. 22¼ x 8¼ x 6⅝ in $399

Silhouette 3-Way Speaker
Bass-reflex design with two 5¼-in woofers and one 1-in dome tweeter. Power handling 80 W; crossover points 300 Hz and 4 kHz; FR 47 Hz-20 kHz; sens 90 dB; imp 5 ohms. 9¾ x 48¼ x 6⅜ in $399

SW-303E Powered Subwoofer
8-in driver; amp rated at 70 W rms. FR 45-150 Hz. 14 x 16 x 9 in $399

Graphic 2-Way Speaker
Bass-reflex design with two 5¼-in woofers and one 1-in dome tweeter. Designed for wall hanging. Computer-optimized band-pass filter; drivers installed in synthetic material anchored in hole cut out of glass panel. Power handling 60 W; crossover point 3 kHz; FR 45 Hz-20 kHz; sens 88 dB; imp 8 ohms. Black-glass front panel accepts fabric panel. 15½ x 17⅜ x 3⅛ in $329

Art 2-Way Speaker
Bass-reflex design with 5¼-in woofer and 1-in impregnated textile-dome tweeter. Computer-optimized band-pass filter. Power handling 60 W; crossover point 3 kHz; FR 40 Hz-20 kHz; sens 88 dB; imp 8 ohms. Cabinet shape similar to modern flat-square TVs. 15⅞ x 13⅞ x 3½ in $275
Artina. As above, 4-in woofer, 2-in cone tweeter. Power handling 50 W; crossover point 4.5 kHz; FR 80 Hz-20 kHz; sens 90 dB. 11¼ x 9⅞ x 3 in . .$139

Center 100 II 2-Way Center-Channel Speaker
Bass-reflex design with two 4-in woofers and one 1-in tweeter. Magnetic shielding. Power handling 70 W; crossover point 4.5 kHz; FR 80 Hz-20 kHz; sens 90 dB; imp 8 ohms. 16¾ x 6½ x 4⅞ in . .$199

Center 50 II 2-Way Center-Channel Speaker
Bass-reflex design with two 4-in woofers and one ¾-in dome tweeter. Magnetic shielding. Power handling 60 W; crossover point 3.5 kHz; FR 80 Hz-20 kHz; sens 89 dB; imp 8 ohms. 12⅝ x 6⅝ x 4¾ in . . .$169

Indoor/Outdoor II 2-Way Outdoor Speaker
Two 4-in woofers and one ¾-in dome tweeter. Resistant to water, heat, cold, smoke, and dust. Power handling 60 W; crossover point 3.5 kHz; FR 70 Hz-20 kHz; sens 90 dB; imp 4 ohms. 12⅝ x 6⅜ x 4¾ in $150
Indoor/Outdoor I. As above, single woofer. Power handling 50 W; crossover point 4.5 kHz; FR 80 Hz-20 kHz; imp 8 ohms. 5⅜ x 8 x 3¼ in $119

Surround 200 3-Way Surround Speaker
4-in woofer, 3¼-in midrange, and 2-in cone tweeter. Power handling 50 W; crossover points 800 Hz, 3.5 and 7 kHz; FR 80 Hz-20 kHz; sens 88 dB; imp 8 ohms. 6¾ x 9 x 5¾ in $149

Surround 100 2-Way Surround Speaker
4-in woofer and 2-in cone tweeter. Power handling 45 W; crossover point 4.5 kHz; FR 90 Hz-20 kHz; sens 90 dB; imp 8 ohms. 5¼ x 7⅞ x 3½ in . . .$89

U-50 Speaker
Bass-reflex design with 5-in driver. Designed for wall hanging. Volume control. Power handling 50 W; FR 80 Hz-15 kHz; sens 92 dB; imp 8 ohms. 6¾ x 10½ x 5½ in $79

Surround 50 Surround Speaker
4-in driver. Power handling 45 W; FR 120 Hz-17 kHz; sens 87 dB; imp 8 ohms. 5¼ x 7⅞ x 3½ in $59

07 Series
The following use a bass-reflex design and have coated-textile-dome tweeters. Models 507 and 707i have long-throw woofers in a push-pull configuration.

Model 707i 3-Way Speaker
Two 8-in woofers, two 5-in midranges, and one 1-in tweeter. Power handling 280 W max; crossover points 150 Hz and 3 kHz; FR 35 Hz-20 kHz; sens 90 dB; imp 4 ohms. 10½ x 41½ x 15½ in . . .$899
Model 507. As above, two 6½-in woofers, two 4-in midranges, and one 1-in tweeter. Power handling 200 W max; FR 40 Hz-20 kHz; sens 88 dB. 9 x 36⅝ x 14⅝ in $749

Model 477 2-Way Speaker
Two 5-in woofers and one 1-in tweeter. Power handling 100 W; crossover point 2.5 kHz; FR 40 Hz-2 kHz; sens 88 dB; imp 4 ohms. 7½ x 30⅝ x 11¼ in $449
Model 307. As above, single woofer. Power handling 70 W; crossover point 3 kHz; FR 50 Hz-20 kHz; sens 87 dB; imp 6 ohm. 7⅛ x 12¼ x 10½ in . . .$299

Model 407 3-Way Bookshelf Speaker
6½-in woofer, 1-in dome midrange, and ⅝-in tweeter. Power handling 80 W; crossover points 3 and 10 kHz; FR 45 Hz-20 kHz; sens 88 dB; imp 6 ohms. 8½ x 15⅞ x 10½ in $399

Classic Series
The following use a bass-reflex design. They have ¾-inch-thick MDF front panels, interior bracing, gold-plated biampable terminals, and coated-textile membrane tweeters. Each is available in a mahogany or black finish.

Classic 10 3-Way Speaker
Two 8-in woofers, one 5¼-in midrange, and one 1-in tweeter. Non-resonant construction. Power handling 180 W; crossover points 700 Hz and 2.5 kHz; FR 30 Hz-20 kHz; sens 91 dB; imp 6 ohms. 11 x 39½ x 14½ in $699

Classic 8 3-Way Speaker
Two 6½-in woofers, one 5¼-in midrange, and one 1-in tweeter. Power handling 150 W; crossover points 700 Hz and 2.5 kHz; FR 35 Hz-20 kHz; sens 90 dB; imp 4 ohms. 9 x 35½ x 11½ in $499

Classic 6 2-Way Speaker
Two 5¼-in woofers and one 1-in dome tweeter. Power handling 100 W; crossover point 2.5 kHz; FR 40 Hz-20 kHz; sens 90 dB; imp 4 ohms. 8 x 33⅛ x 11½ in $399
Classic 4. Bookshelf version of above. FR 45 Hz-20 kHz. 8 x 18⅝ x 9⅞ in $299

Cornet Series
The following have MDF cabinets, gold-plated terminals, and soft-dome tweeters.

Cornet 195 IV 3-Way Bookshelf Speaker
Two 8-in woofers, one 5¼-in midrange, and one 1-

in tweeter. Biampable terminals. Power handling 140 W; crossover points 800 Hz and 4 kHz; FR 40 Hz-20 kHz. 10 x 34⅜ x 10½ in $398

Cornet 175 3-Way Speaker
Bass-reflex design with two 6½-in woofers, one 5¼-in midrange, and one 1-in dome tweeter. Power handling 90 W min, 120 W max $318

Cornet 165 IV 3-Way Bookshelf Speaker
Bass-reflex design with 6½-in woofer, 3-in midrange, and 1-in tweeter. Power handling 80 W; crossover points 1.5 and 5 kHz; FR 47 Hz-20 kHz; sens 90 dB; imp 8 ohms. 9 x 16½ x 8⅞ in $198

Cornet 145 IV 2-Way Bookshelf Speaker
Bass-reflex design with 5¼-in woofer and 1-in tweeter. Power handling 60 W; crossover point 3 kHz; FR 50 Hz-20 kHz; sens 89 dB; imp 8 ohms. 7¾ x 12½ x 8¾ in $138

JANIS

The following are available in zebrawood, Brazilian rosewood, coca bola, American walnut, white oak, or black finishes.

W1 Powered Subwoofer
Slot-load 15-in woofer; Janis Interphase 1A amp rated at 125 W. Bass output from electromagnetically-controlled Helmholtz resonator; 18-dB/oct crossover. Crossover point 100 Hz; FR 30-100 Hz ±1 dB. 22 x 22 x 18 in; 96 lb $1,900
As above with Interphase 3AT crossover; no power amp $1,700
As W1, no crossover or amp $1,050
W3 Subwoofer. As W1, 12-in driver. 18 x 18 x 18 in; 66 lb $1,750
As above with Interphase 3AT crossover; no power amp $1,550
System 3A. W3 with Interphase 3A crossover and switchable amp rated at 70 W rms. Line-level output. Variable phase and gain controls. FR 2 Hz-1 kHz; THD 0.03% at 20 Hz; S/N 90 dB $1,300
As W3, no crossover or amp $900

JBL

Century Gold 3-Way Bookshelf Speaker
12-in cast-frame woofer, 5-in cast-frame midrange with Kevlar cone, and 1-in gold-plated titanium tweeter. Power handling 800 W; FR 38 Hz-22 kHz; sens 90 dB; imp 6 ohms. Sapeli mahogany wood finish. 15 x 26½ x 12⅝ in $5,000/pr

HT-1 MkII THX Home Theater System
6-speaker system with 200-W powered subwoofer with two 12-in drivers; 3 satellites and 2 dipole surround speakers, each with two 5¼-in woofers and one 1-in tweeter. THX-certified; pure-titanium tweeters; polymer-laminate woofers and midranges. Power handling 100 W; sens 91 dB subwoofer, 87 dB satellites or surrounds; imp 6 ohms surrounds, 8 ohms satellites. Subwoofer: 21 x 21 x 21 in. Satellite: 17½ x 10 x 8½ in; 21 lb. Surround: 13⅞ x 9¼ x 7¾ in; 16 lb $3,499

S3100 2-Way Speaker
15-in woofer and 1¾-in compression tweeter. Magnetic shielding. Power handling 400 W; sens 94 dB; impedance 6 ohms. 22 x 43¾ x 16 in; 125 lb $2,500
S2600. As above, 12-in woofer. Sens 92 dB. 22 x 38¾ x 16 in; 115 lb $2,000

PSW-D115 Powered Subwoofer
Bass-reflex design with 15-in driver; 350-W amp. Digital amp; proprietary dynamic bass-optimization circuitry. Line- and speaker-level inputs and outputs. A/V EQ switch; adjustable low-pass/high-pass crossover; defeatable crossovers for Dolby Digital applications. Crossover point variable from 60-180 Hz; FR 25-180 Hz. Black woodgrain. 20 x 20 x 21¾ in; 50 lb $799
PSW-D112. As above, 12-in driver; 250-W amp. FR 28-180 Hz. 17½ x 17½ x 19⅛ in; 45 lb ...$499

SCS125 Home Theater System
6-speaker system featuring 75-W powered subwoofer with 8-in driver; five magnetically-shielded satellites each with 3-in midrange and ¾-in tweeter. Speaker-level inputs and outputs. Subwoofer-level control. Power handling 300 W; FR 35-200 Hz subwoofer, 200 Hz-20 kHz satellite; imp 8 ohms. Black. 5-yr warranty. Subwoofer: 12 x 12 x 10 in. Satellite 3 x 4 x 4 in $449

PSW-D110 Powered Subwoofer
Bass-reflex design with 10-in driver; 150-W amp. Digital amp. Line- and speaker-level inputs and outputs. Phase switch; front-mounted level control; adjustable low-pass/high-pass crossover. Crossover point variable from 60-180 Hz; FR 30-180 Hz. Black woodgrain. 15⅜ x 15⅜ x 17 in; 40 lb $399

Synthesis THX Powered Home Theater Systems
The following are THX-certified, have biradial controlled-directivity horn-loaded compression drivers for cinema sound and wide-dispersion titanium-dome tweeters for music, and come with JBL's SDP-2 Dolby Digital/THX surround processor for system control. All components are rack-mountable.

Synthesis One THX Home Theater System
7-speaker system featuring 2 subwoofers, each with 18-in driver; 2 front speakers, each with one 18-in woofer, two 8-in woofers, two 5-in midranges, one 2-in titanium-dome horn tweeter, and one 1-in dome tweeter; center speaker with two 8-in woofers and one 2-in titanium-dome horn tweeter; 2 surround speakers, each with two 8-in woofers and two 2-in titanium-dome horn tweeters. Gray finish $47,500

Synthesis Two THX Home Theater System
7-speaker system featuring 2 subwoofers, each with one 18-in driver; 2 front speakers, each with one 15-in woofer, two 6-in woofers, two 4-in midranges, one 2-in titanium-dome horn tweeter, and one 1-in dome tweeter; center speaker with one 6-in woofer and one 2-in titanium-dome horn tweeter; two surround speakers, each with two 5-in woofers and two 1-in horn tweeters. Magnetic shielding on front and center speakers. Black ash finish $32,500
Synthesis Three. As above, 2 magnetically-shielded 12-in subwoofers; horizontal or vertical center speaker $25,000

SVA Series
The following have magnetic shielding.

SVA2100 2-Way Speaker
Two 10-in cast-frame woofers and one biradial-horn tweeter with proprietary design. Adjustable front spikes. Biampable terminals. Power handling 300 W; FR 40 Hz-20 kHz ±2 dB; sens 92 dB; imp 8 ohms. Black oak finish with horn-trim plates. 14½ x 43 x 20¼ in $2,000/pr
SVA1800. As above, two 8-in cast-frame woofers. Power handling 250 W; FR 50 Hz-20 kHz ±2 dB. 12½ x 38 x 16¼ in $1,680/pr

SVA1500 2-Way Bookshelf Speaker
Bass-reflex design with two 5¼-in woofers and one 1-in ferrofluid-cooled soft-dome tweeter with proprietary biradial horn. Proprietary precision-imaging system. Power handling 150 W; crossover point 2.5 kHz; FR 45 Hz-20 kHz; sens 88 dB; imp 8 ohms. Black woodgrain finish. 5-yr warranty. 6⅞ x 20 x 11⅛ in; 25 lb $1,100/pr

SVA1600 2-Way Speaker
Bass-reflex design with two 6½-in woofers and one 1-in ferrofluid-cooled soft-dome tweeter with proprietary biradial horn. Proprietary precision-imaging system; adjustable spikes. Biampable 5-way binding posts. Power handling 200 W; crossover point 1.75 kHz; FR 38 Hz-20 kHz; sens 89 dB; imp 8 ohms. Black woodgrain finish. 5-yr warranty. 11 x 35¾ x 13½ in; 60 lb $650

SVA Center 2-Way Center-Channel Speaker
Bass-reflex design with two 5¼-in woofers and one 1-in ferrofluid-cooled soft-dome tweeter with biradial horn. Proprietary precision-imaging system; adjustable spikes. 5-way binding posts. Power handling 150 W; FR 45 Hz-20 kHz; sens 88 dB; imp 8 ohms. Black woodgrain finish. 5-yr warranty. 20 x 6⅞ x 11⅛ in; 25 lb $550

Electronic Simply Cinema Series
ESC550 Powered Home Theater System
Complete home theater system with 245-W powered subwoofer with two 6½-in drivers; three 2-way front speakers with 3½-in midrange and ¾-in titanium-dome tweeter; two surround speakers with 3½-in driver; Dolby Pro Logic decoder; CD player; AM/FM tuner. Magnetic shielding for satellites and front speakers. 2 stereo audio inputs; 1 tape output; RCA and stereo mini-plug connectors. Bass and treble adjustments; center and rear level adjustments; adjustable delay time; test mode. Includes remote control, wall brackets, and connecting cable. FR 35 Hz-20 kHz –6 dB system. Black $1,700

ESC300 Powered Home Theater System
Complete system with 65-W powered subwoofer with 8-in driver; five 2-way magnetically-shielded satellites, each with 3-in midrange and ¾-in titanium-dome tweeter; 200-W Dolby Pro Logic surround processor/amp built into subwoofer. Dolby Pro Logic, Music, Simulated, 3 Stereo, and Stereo modes; bass and treble adjustments; center and rear level adjustments; test mode. Includes remote control, separate remote sensor. FR 35 Hz-20 kHz system. Black. Subwoofer: 13 x 15⅛ x 14½ in; 35 lb. Satellite: 3¼ x 4⅜ x 3¾ in; 1 lb $1,100

ESC200 Powered Home Theater System
Complete system with subwoofer with 6½-in driver; five 2-way satellite speakers, each with 3-in woofer and 1-in tweeter; 100-W processor/amp with Dolby Pro Logic, Concert, Hall and Stereo modes. Full-function remote control. Includes all cables. FR 120 Hz-20 kHz sat, 35-200 Hz sub; sens 87 dB sat, 90 dB sub; imp 8 ohms sat, 6 ohms sub. Black finish. Satellite: 4⅛ x 7⅝ x 7½ in. Subwoofer: 7⅞ x 17¾ x 13⅞ in $599

Simply Cinema Series
The following have a gray or white finish (center channel available in gray only).

SCS120 Home Theater System
6-speaker system with 150-W dual 8-in bass-reflex powered subwoofers; five 2-way video-shielded speakers, each with two 3½-in neodymium midranges, one ¾-in titanium composite-dome tweeter, and recessed wire channel. Includes wall-mounting bracket for surround and center speakers. Power handling 120 W; FR 40 Hz-20 kHz system; sens 90 dB; imp 8 ohms $999

SCS115 Home Theater System
6-speaker system with 100-W powered bass-reflex subwoofer with two 6½-in drivers; three 2-way magnetically shielded speakers, each with 3½-in neodymium midrange, ¾-in titanium-composite-dome tweeter, and recessed wire channel; two surround speakers, each with 3½-in neodymium driver and wall-mounting brackets. Includes shelf stands for front speakers. Power handling 80 W front, 70 W surround; FR 40 Hz-20 kHz system; sens 88 dB; imp 8 ohms. Subwoofer: 8½ x 14¾ x 19¾ in. Satellite: 3¾ x 6½ x 4¼ in $799

TLX Series
TLX271P 3-Way Speaker/Powered Subwoofer
Bass-reflex design with powered 8-in subwoofer with 100-W amp, 6½-in mid-bass driver, 4-in midrange, and 10-mm tweeter. Line- and speaker-level input; direct Dolby Digital input. Subwoofer-level control; power control. Crossover point selectable at 120 Hz, 600 Hz, or 4 kHz; FR 30 Hz-25 kHz; sens 90 dB; imp 8 ohms. 5-yr speaker, 1-yr amp warranty. 10¼ x 35⅞ x 11¾ in; 55 lb $549

TLXCSS-SP1000 Home Theater System
6-piece system featuring 75-W powered subwoofer with 8-in driver; two 2-way front speakers, each with 5¼-in woofer and titanium-laminate tweeter; center channel with dual 4½-in woofers and one titanium-laminate tweeter; two surround speakers, each with 4-in full-range driver. Subwoofer line- and speaker-level inputs and outputs. Subwoofer-level control; phase switch; adjustable crossover. Power handling 260 W; imp 8 ohms. Black woodgrain. 5-yr speaker and 1-yr electronics warranty. Front: 6½ x 11 x 7¼ in; 7 lb. Center: 18½ x 6½ x 6⅛ in; 10 lb. Rear: 6⅜ x 6 x 5½ in; 3 lb. Subwoofer: 14¾ x 13½ x 15⅛; 26 lb $449

TLX121 2-Way Bookshelf Speaker
Bass-reflex design with 6½-in polymer-laminate woofer and ½-in ferrofluid-cooled titanium-laminate dome tweeter. 5-way binding posts. Power handling 75 W; crossover point 3 kHz; FR 55 Hz-25 kHz; sens 89 dB; imp 8 ohms. Black woodgrain finish. 5-yr warranty. 7⅞ x 13¾ x 9⅝ in; 11 lb $220/pr

TLX Center2 2-Way Center-Channel Speaker
Bass-reflex design with two 5¼-in polymer-laminate woofers and one ⅝-in ferrofluid-cooled titanium-laminate tweeter. Magnetic shielding; multi-angled cabinet allows for flexible placement. Power handling 100 W; crossover point 2.7 kHz; FR 90 Hz-20 kHz; sens 87 dB; imp 8 ohms. Black woodgrain finish. 5-yr warranty. 20 x 7 x 6½ in; 15 lb $180

TLX151 3-Way Bookshelf Speaker
Bass-reflex design with 8-in polymer-laminate woofer, 4-in polymer-laminate midrange, and ½-in ferrofluid-cooled titanium-laminate dome tweeter. 5-way binding posts. Power handling 125 W; crossover points 600 Hz and 3 kHz; FR 50 Hz-25 kHz; sens 90 dB; imp 8 ohms. Black woodgrain finish. 5-yr warranty. 9⅛ x 20⅞ x 12 in; 22 lb ...$180
TLX171 3-Way Speaker. As above, power handling 150 W; FR 35 Hz-25 kHz; sens 90 dB; imp 8 ohms. 10¼ x 33⅞ x 12½ in; 33 lb $180

TLX181 3-Way Speaker
Bass-reflex design with 10-in polymer-laminate woofer, 10-in polymer-laminate passive radiator, 4-in polymer-laminate midrange, and ½-in titanium-laminate dome tweeter. 5-way binding posts. Power handling 200 W; crossover points 600 Hz and 3 kHz; FR 30 Hz-25 kHz; sens 90 dB; imp 8 ohms. Black woodgrain finish. 5-yr warranty. 11¾ x 37⅜ x 12½ in; 14 lb $180

TLX Movies Center/Surround System
3-speaker system featuring one center-channel speaker with two 4½-in woofers and one 2-in tweeter; two surround speakers, each with 4½-in full-range woofer. Magnetic shielding on center speaker; tuned-port design. Power handling 70 W center, 35 W surround; FR 100 Hz-20 kHz center, 120 Hz-16 kHz surround. Black woodgrain finish. Center: 16 x 6 x 6¼ in; 9 lb. Surround: 6⅜ x 6 x 5½; 3 lb $140

TLX Center1 2-Way Center-Channel Speaker
Bass-reflex design with two 4½-in woofers and one 2½-in ferrofluid-cooled tweeter. Magnetic shielding. Power handling 70 W; crossover point 7.5 kHz; FR 90 Hz-20 kHz; sens 90 dB; imp 8 ohms. Black woodgrain finish. 5-yr warranty. 18½ x 6 x 5⅞ in; 10 lb $130

TLX105 2-Way Bookshelf Speaker
Bass-reflex design with 5¼-in woofer and 2-in ferrofluid-cooled tweeter. Power handling 50 W; crossover point 2.2 kHz; FR 75 Hz-20 kHz; sens 86 dB; imp 8 ohms. Black woodgrain finish. 5-yr warranty. 6½ x 11 x 7¼ in; 7 lb $100/pr

CF Series
The following have polymer-laminate woofers and midranges, and black vinyl finishes.

CF150 3-Way Speaker
15-in woofer, 6¼-in midrange, and 1-in Mylar-laminate tweeter. Power handling 325 W; FR 32 Hz-20 kHz; sens 98 dB; imp 8 ohms. 17⅞ x 35 x 19 in; 62 lb $500

CF120 3-Way Speaker
12-in woofer, 4½-in midrange, and ⅝-in titanium-laminate-dome tweeter. Power handling 250 W; FR 36 Hz-20 kHz; sens 96 dB; imp 8 ohms. 16½ x 31½ x 15 in; 50 lb $350
CF100. As above, 10-in woofer. Power handling 175 W; FR 39 Hz-20 kHz; sens 94 dB. 12⅞ x 27 x 11¾ in; 32 lb $280

In-Wall Series
The following have a Navajo-white finish.

AS-8 2-Way In-Wall Speaker
8-in polypropylene woofer and 1-in titanium tweeter. 3-position high-frequency control switch; flush-mountable. Includes retrofit/new construction mounting bracket. Power handling 60 W; FR 35 Hz-20 kHz; sens 87 dB; imp 8 ohms. Rectangular frame. Mounting area: 15⅛ x 11⅛ in $449/pr

AS-6 2-Way In-Wall Speaker
6½-in polypropylene woofer and 1-in titanium tweeter. Flush-mountable. Includes retrofit/new construction mounting bracket. Power handling 50 W; FR 40 Hz-20 kHz; sens 89 dB; imp 8 ohms. Rectangular frame. Mounting area: 13 x 7½ in $349/pr
AS-5. As above, 5¼-in polypropylene woofer. Power handling 40 W; FR 50 Hz-20 kHz; sens 88 dB. 11¼ x 7½ in $249/pr

AS-SUB In-Wall Subwoofer
8-in polypropylene driver with dual-voice-coils. Includes retrofit/new-construction mounting bracket. Power handling 120 W; FR 32-300 Hz; sens 87 dB; imp 8 ohms. Square frame. Mounting diameter 11¾ in $249

AS-65C 2-Way Ceiling Speaker
Coaxial design with 6½-in polypropylene-cone woofer and ½-in polymer-dome tweeter. Flush-mountable. Includes retrofit/new-construction mounting bracket. Power handling 50 W; FR 45 Hz-20 kHz; sens 89 dB; imp 8 ohms. Round frame. Mounting diameter: 8¼ in $199/pr

Control Series
The following have magnetic shielding, are available in black or white, and include built-in wall-mount brackets.

CM62 2-Way Speaker
6½-in polylaminate-cone driver and ½-in titanium-dome tweeter. Crossover point 3 kHz; FR 45 Hz-20 kHz; sens 89 dB; imp 6 ohms. Black. 9½ x 15⅜ x 9¼ in; 11 lb $399/pr

CM52AW 2-Way Outdoor Speaker
5¼-in polylaminate woofer and ½-in titanium-dome tweeter. Crossover point 4 kHz; FR 50 Hz-20 kHz; sens 89 dB; imp 6 ohms. 6¾ x 10¼ x 6½ in; 8 lb $319/pr
CM52. As above, for indoor use $289/pr

CM Center 2-Way Center-Channel Speaker
Bass-reflex design with two 4½-in polypropylene-laminate woofers and one ½-in ferrofluid-cooled titanium-dome tweeter. Magnetic shielding. Power handling 100 W; crossover point 4.5 kHz; FR 65 Hz-20 kHz; sens 89 dB; imp 8 ohms. Black. 5-yr warranty. 13⅛ x 6¼ x 6½ in; 15 lb $180

See the Directory of Manufacturers (page 233) for where to write or call to get product literature or to find a local dealer.

CM42 2-Way Speaker
4-in polylaminate-cone woofer and ½-in titanium-dome tweeter. Crossover point 4 kHz; FR 60 Hz-20 kHz; sens 88 dB; imp 6 ohms. 5¾ x 10 x 4 in; 6 lb $139
CM42AW. As above, for outdoor use, no magnetic shielding $269/pr

HLS Series
The following use a bass-reflex design with a ½-in ferrofluid-cooled polycarbonate tweeter with constant-directivity horn, magnetic shielding, and a brush satin-black finish. They carry a 5-year warranty.

HLS810 2-Way Bookshelf Speaker
8-in injection-molded polypropylene woofer. 5-way binding posts. Power handling 150 W; crossover point 2.6 kHz; FR 50 Hz-20 kHz; sens 89 dB; imp 8 ohms. 9¾ x 19½ x 9¾ in; 21 lb $380

HLS820 2-Way Speaker
Two 8-in injection-molded polypropylene woofers. Power handling 250 W; crossover point 2.6 kHz; FR 40 Hz-20 kHz; sens 90 dB; imp 8 ohms. 9¾ x 39¾ x 11½ in $350

HLS610 2-Way Bookshelf Speaker
6½-in injection-molded polypropylene woofer. 5-way binding posts. Power handling 125 W; crossover point 2.7 kHz; FR 55 Hz-20 kHz; sens 88 dB; imp 8 ohms. 9 x 16¼ x 9½ in; 14 lb $320/pr

HLS620 2-Way Speaker
Two 6½-in injection-molded polypropylene woofers. 5-way binding posts. Power handling 200 W; crossover point 2.7 kHz; FR 42 Hz-20 kHz; sens 89 dB; imp 8 ohms. 9 x 35¾ x 11½ in; 35 lb $300

HLS Center 2-Way Center-Channel Speaker
Two 5¼-in injection-molded polypropylene woofers. 5-way binding posts. Power handling 150 W; crossover point 2.8 kHz; FR 80 Hz-20 kHz; sens 88 dB; imp 8 ohms. 20⅜ x 7 x 6½ in; 15 lb $230

HLS615 2-Way Speaker
6½-in injection-molded polypropylene woofer. 5-way binding posts. Power handling 150 W; crossover point 2.7 kHz; FR 45 Hz-20 kHz; sens 88 dB; imp 8 ohms. 9 x 31¾ x 9½ in; 28 lb $230

HLS410 2-Way Bookshelf Speaker
4-in co-injection molded woofer. Power handling 100 W; crossover point 2.6 kHz; FR 75 Hz-20 kHz; sens 87 dB; impedance 8 ohms. 8 x 6 x 6 in; 10 lb $229/pr

JBL Series
The following use a bass-reflex design.

JBL800 2-Way Bookshelf Speaker
8-in woofer and ½-in ferrofluid-cooled tweeter. Power handling 100 W; crossover point 3.2 kHz; FR 52 Hz-20 kHz; sens 89 dB; imp 8 ohms. Black woodgrain finish. 5-yr warranty. 10 x 19¼ x 9¼ in; 19 lb $260/pr

JBL900 2-Way Bookshelf Speaker
6½-in woofer and ½-in ferrofluid-cooled tweeter. Magnetic shielding. Power handling 100 W; FR 55 Hz-20 kHz; sens 89 dB; imp 8 ohms. 9 x 32 x 8 in; 25 lb $259/pr

JBL500 2-Way Bookshelf Speaker
5¼-in woofer and 2-in ferrofluid-cooled tweeter. Power handling 50 W; crossover point 2.2 kHz; FR 75 Hz-20 kHz; sens 86 dB; imp 8 ohms. Black woodgrain finish. 5-yr warranty. 6½ x 11 x 7¼ in; 7 lb $140/pr

JBL Center 2-Way Center-Channel Speaker
Two 4½-in woofers and one 2½-in ferrofluid-

cooled tweeter. Magnetic shielding. Power handling 70 W; crossover point 7.5 kHz; FR 90 Hz-20 kHz; sens 90 dB; imp 8 ohms. Black woodgrain finish. 5-yr warranty. 18½ x 6½ x 5⅝ in; 10 lb . . .$130

Flix Series
The following have a black woodgrain finish.

Flix20 Center/Surround System
3-speaker system with one center-channel speaker with two 4½-in woofers and one 2½-in tweeter; two surround speakers, each with 4½-in full-range woofer and ½-in tweeter; tuned-port design. Magnetic shielding on center speaker. Power handling 100 W center, 50 W surround; FR 90 Hz-20 kHz center, 100 Hz-16 kHz surround $230

Flix10 Center/Surround System
3-speaker system with one center-channel speaker with two 4½-in woofers and one 2-in tweeter; two surround speakers, each with 4½-in full-range woofer; tuned-port design. Magnetic shielding on center speaker. Power handling 70 W center, 35 W surround; FR 100 Hz-20 kHz center, 120 Hz-16 kHz surround. Center: 16 x 6 x 6¼ in; 9 lb. Surround: 6⅜ x 6 x 5½ in; 3 lb $160

Multimedia Speakers
Media System2000 Powered Home Theater System
Two Media2000 powered satellites and one Media Sub2000 powered subwoofer. All amplification built into subwoofer $200

Media Sub2000 Powered Subwoofer
4-in long-throw driver; 40-W amp. Magnetic shielding; digitally-powered amp to reduce heat. Auto on/off; bass control; LED power indicator. FR 40-120 Hz. Dark gray. 9⅝ x 5¼ x 10⅝ in; 10 lb . . .$129

Media2000 Powered Speaker
Bass-reflex design with 3-in elliptical full-range driver; 40-W amp. Neodymium magnet; magnetic shielding; digitally-powered amp to reduce heat. 1 input; subwoofer output. Auto on/off; bass and treble controls; volume control; LED power indicator; adjustable angle positioning. FR 70 Hz-20 kHz. Dark gray. 7 x 2¾ x 7¼ in; 2 lb $129/pr

Media200 2-Way Speaker
Bass-reflex design with 4-in woofer and 1-in tweeter. Magnetic shielding. 1 input; subwoofer output. Auto on/off; bass and treble controls; volume control. Power handling 20 W; FR 60 Hz-20 kHz. Dark gray. 5¼ x 10½ x 8 in; 3 lb $89/pr

Media100 Speaker
Bass-reflex design with 3-in full-range driver. Magnetic shielding. 2 inputs; subwoofer output. Auto on/off; tone and volume controls. Power handling 10 W; FR 75 Hz-20 kHz. Dark gray. 3½ x 7⅛ x 5¼ in; 2 lb $70/pr

JENSEN

JHT-2000 Home Theater System
6-piece system with powered bass module with 8-in woofer and 250-W amp; center-channel speaker with 4-in woofer and 2-in neodymium tweeter; 2 front and 2 rear satellites, each with 4-in midrange and 1-in tweeter. 4 audio inputs. Bass module has auto on/off; center speaker has infrared remote-control sensor. FR 50 Hz-20 kHz system; sens 90 dB; imp 8 ohms. Black finish $500

JHT-1000 Home Theater System
6-piece system with powered bass module with 6½-in woofer and 125-W amp; center-channel speaker with dual 4-in woofers and 2-in tweeter; 2 front satellites, each with 5¼-in woofer and 2¼-in tweeter; 2 rear satellites, each with 3½ full-range driver. 4 inputs. Dolby Pro Logic, Theater, Stereo, and Test surround modes on subwoofer amp; center infrared remote control sensor; full-function remote control. FR 55 Hz-20 kHz system; sens 90 dB; imp 8 ohms. Black $400

M Series
The following use a bass-reflex design.

M1-P 3-Way Speaker
15-in woofer, 6½-in semi-horn midrange, and 1-in horn tweeter. 5-way binding posts. Power handling 1400 W max; crossover points 600 Hz and 2.5 kHz; FR 30 Hz-20 kHz; sens 98 dB; imp 8 ohms. Tolex laminate finish. 5-yr warranty. 20¾ x 38¼ x 16¾ in; 72 lb $2,398/pr

M1 3-Way Speaker
15-in woofer, 6½-in midrange, and 1-in horn tweeter in offset vertical array. 5-way binding posts. Power handling 1000 W max; FR 30 Hz-20 kHz; sens 98 dB; imp 8 ohms. Black. 5-yr warranty. 20¾ x 38¼ x 16¾ in; 72 lb $999/pr

M-Sub Powered Subwoofer
15-in driver; amp rated at 500 W rms. Line- and speaker-level inputs. Crossover point variable from 40-120 Hz; FR 20-120 Hz. 5-yr speaker, 1-yr amp warranty. 20¾ x 28 x 21 in; 68 lb $599

M2 3-Way Speaker
12-in woofer, 6½-in midrange, and 1-in horn tweeter. 5-way binding posts. Power handling 700 W max; crossover points 800 Hz and 2.5 kHz; FR 30 Hz-20 kHz; sens 95 dB; imp 8 ohms. Black. 5-yr warranty. 17¼ x 32 x 14 in; 50 lb $599/pr

M-Center 2-Way Center-Channel Speaker
6½-in midrange and 1-in horn tweeter. Magnetic shielding. 5-way binding posts. Power handling 500 W max; crossover point 2.5 kHz; FR 45 Hz-20 kHz; sens 93 dB; imp 8 ohms. Black. 5-yr warranty. 22 x 9¾ x 8⅜ in; 20 lb $249

J Series
The following carry a 5-year warranty.

J1 3-Way Speaker
Bass-reflex design with one 15-in long-throw woofer, two 5-in midranges, and one 1-in horn tweeter. Power handling 20-150 W; FR 25 Hz-20 kHz ±3 dB; sens 94 dB; imp 8 ohms. Black oak. 17½ x 39 x 11 in; 43 lb $350/pr

J2 3-Way Speaker
Bass-reflex design with 15-in long-throw woofer, 5-in midrange, and 1-in horn tweeter. Power handling 125 W; FR 30 Hz-20 kHz ±3 dB; sens 94 dB; imp 8 ohms. Black oak. 17½ x 34 x 11 in; 34 lb . . .$298/pr

J4 2-Way Bookshelf Speaker
Bass-reflex design with 6½-in long-throw woofer and 1-in horn tweeter. Power handling 20-75 W; FR 50 Hz-20 kHz ±3 dB; sens 91 dB; imp 8 ohms. Black oak. 11½ x 18½ x 11 in $276/pr

J5 2-Way Bookshelf Speaker
Bass-reflex design with 6½-in woofer and 1-in horn tweeter. Power handling 20-120 W; FR 50 Hz-20 kHz ±3 dB; sens 91 dB; imp 8 ohms. Black $129/pr

JCC 2-Way Center-Channel Speaker
Acoustic-suspension design with two 5-in midranges and one 1-in horn tweeter. Power handling 100 W; FR 100 Hz-20 kHz ±3 dB; sens 91 dB; imp 8 ohms. Black oak. 20½ x 7½ x 7½ in; 8 lb $99

JOSEPH AUDIO

RM50si 3-Way Speaker
10-in woofer, 5-in Hexacone midrange, and 1⅛-in soft-dome tweeter. Patented infinite-slope crossover with 120 dB/oct slope at 2 kHz and 50 dB/oct slope at 120 Hz; Cardas internal wiring; isolated midrange chamber. Gold-plated biampable terminals. Power handling 350 W; FR 20 Hz-20 kHz ±1.5 dB; sens 88 dB; imp 8 ohms. 13 x 46 x 20 in; 130 lb $5,999/pr

RM30si 3-Way Speaker
8-in propylene woofer, 5-in Hexacone midrange, and 1-in soft-dome tweeter. Patented infinite-slope crossover with 120 dB/oct slope at 2 kHz and 50 dB/oct slope at 120 Hz; Cardas internal wiring; isolated midrange chamber. Gold-plated biampable terminals. Power handling 300 W; FR 28 Hz-20 kHz ±2 dB; sens 88 dB; imp 8 ohms. 12 x 40 x 15 in; 100 lb $3,999/pr

RM25si Signature 2-Way Speaker
Two 6½-in aluminum-cone woofers with phase plugs and one 1-in silk-fabric-dome tweeter. Patented infinite-slope crossover with 120 dB/oct slope at 2 kHz and 50 dB/oct slope at 120 Hz; Cardas internal wiring; computer-optimized vented bass loading. Power handling 250 W; FR 32 Hz-20 kHz ±2 dB; sens 86 dB; imp 8 ohms. 8½ x 46 x 11½ in; 73 lb $3,299/pr

RM22si 2-Way Speaker
6½-in aluminum woofer and 1-in silk-dome tweeter. Patented infinite-slope crossover with 120 dB/oct slope at 2 kHz; Cardas internal wiring. Biampable terminals. FR 38 Hz-20 kHz ±2 dB; sens 86 dB; imp 8 ohms. 8½ x 38 x 10½ in . . .$2,299/pr

RM7si Signature 2-Way Bookshelf Speaker
6½-in aluminum-cone with phase plug woofer and 1-in silk-fabric dome tweeter. Patented infinite-slope crossover with 120 dB/oct slope at 2 kHz; Cardas internal wiring; computer-optimized bass loading. FR 42 Hz-20 kHz ±2 dB; sens 86 dB; imp 8 ohms. 9 x 15 x 11⅞ in; 26 lb $1,699/pr

RM7si 2-Way Bookshelf Speaker
6½-in glass-fiber woofer and 1-in silk-dome tweeter. Patented infinite-slope crossover with 120 dB/oct slope at 2 kHz; Cardas internal wiring; computer-optimized vented bass loading. Biampable terminals. Power handling 150 W; FR 45 Hz-20 kHz ±2 dB; sens 86 dB; imp 8 ohms. Black, oak, rosewood. 9 x 15 x 11⅞ in; 25 lb . . .$1,299/pr

Cinergy 5.1 Home Cinema Reference 2-Way Speaker
Bass-reflex design with two 6½-in metal woofers and one 6½-in silk-dome tweeter, both magnetically shielded. Patented infinite-slope crossover with 120 dB/oct slope at 2 kHz; wide and even dispersion for clarity when placed on top of TV set. Biampable input. Power handling 200 W; crossover points 150 Hz and 2 kHz; FR 38 Hz-20 kHz ±2 dB; sens 86 dB; imp 8 ohms. 5-yr warranty. 8 x 22 x 14 in; 45 lb $1,249

JPW

SW 120 Powered Subwoofer
Bass-reflex design with 12-in driver; 120-W amp. Remote control of crossover frequency and output level. FR 20-200 Hz; sens 92 dB; imp 6 ohms. Dark gray finish. 21¼ x 19½ x 16½ in $1,250

SW 60 Powered Subwoofer
Bass-reflex design with 10-in driver; 60-W amp. Crossover-frequency and output-level controls. FR 20-200 Hz; sens 90 dB; imp 6 ohms. Dark gray finish. 21¼ x 15½ x 14¼ in $850

SW 40 Powered Subwoofer
Bass-reflex design with 8-in driver; 50-W amp. Braced cabinet. Standby indicator; crossover-frequency and output-level controls. FR 20-200 Hz. Dark-gray finish. 13 x 17 x 14½ in; 29 lb $550

CC 70 2-Way Center-Channel Speaker
Bass-reflex design with two 5¼-in woofers and one ¾-in dome tweeter. Magnetic shielding. Power handling 100 W; FR 60 Hz-22 kHz ±3 dB; sens 90 dB; imp 6 ohms. Dark gray finish and grille. 5-yr warranty. 17¼ x 7¼ x 12¼ in $350

CC 50 2-Way Center-Channel Speaker
Bass-reflex design with two 4-in woofers and one ¼-in dome tweeter. Magnetic shielding. Power handling 60 W; FR 75 Hz-22 kHz ±3 dB; sens 89 dB; imp 6 ohms. Dark gray finish and grille. 5-yr warranty. 17¼ x 6 x 12¼ in $250

Speakers

Millennium Series
The following use a bass-reflex design, have a black or medium-cherry finish, and carry a 5-year warranty.

ML 910 3-Way Speaker
6½-in woofer, 4-in midrange, and ¾-in dome tweeter. Biampable terminals. Power handling 120 W; FR 43 Hz-22 kHz ±3 dB; sens 90 dB; imp 6 ohms. Dark gray grille. 8¾ x 38½ x 11½ in $850/pr

ML 710 2-Way Speaker
5¼-in woofer and ¾-in dome tweeter. Biampable terminals. Power handling 100 W; FR 47 Hz-22 kHz ±3 dB; sens 88 dB; imp 6 ohms. Dark gray grille. 7½ x 32¼ x 11½ in $650/pr
ML 510. As above, bookshelf version. FR 60 Hz-22 kHz ±3 dB. 7½ x 13 x 11½ in $350/pr

ML 310 2-Way Bookshelf Speaker
4-in woofer and ¾-in dome tweeter. Biampable terminals. Power handling 60 W; FR 65 Hz-22 kHz ±3 dB; sens 87 dB; imp 6 ohms. Dark gray grille. 7½ x 32¼ x 11½ in $250/pr

ML 110 2-Way Bookshelf Speaker
4-in woofer and ½-in polymer-dome tweeter with neodymium magnet. Power handling 60 W; FR 68 Hz-22 kHz ±3 dB; sens 89 dB; imp 6 ohms. 7 x 10 x 8 in; 6 lb $175/pr

Custom Install Series
The following have paintable white finishes and include a mounting template and paint guard.

IW 81 2-Way In-Wall Speaker
8-in woofer and 1-in dome tweeter. Power handling 100 W; sens 90 dB; imp 8 ohms. Rectangular frame. Mounting area: 10¼ x 14¼ in $350/pr

IW 61 2-Way In-Wall Speaker
6½-in woofer and 1-in dome tweeter. Power handling 80 W; sens 89 dB; imp 8 ohms. Rectangular frame. Mounting area: 8¾ x 12¼ in $250/pr

IW 51 2-Way In-Wall Speaker
5¼-in woofer and 1-in dome tweeter. Power handling 60 W; sens 88 dB; imp 8 ohms. Rectangular frame. Mounting area: 7½ x 11 in $199/pr

IC 50 2-Way Ceiling Speaker
5¼-in woofer and ¾-in tweeter. Power handling 60 W; sens 88 dB; imp 8 ohms. Mounting depth 8¾ in $99

JRM ENGINEERING

Reference Powered Subwoofer/Satellite System
4-speaker system with two subwoofers, each with 18-in driver; two satellite speakers, each with four 8-in woofers, one horn midrange, and one horn tweeter; 4-way active crossover; two 750-W mono power amps. 6-band remote EQ $26,100

Monitor Powered Subwoofer/Satellite System
3-speaker system with subwoofer with 15-in driver; 2 satellites, each with 8-in woofer, 3-in midrange, and horn tweeter; amp rated at 350 W into 2 ohms. 7-way active crossover; time-aligned drivers; protection circuitry. 7 level controls. FR 18 Hz-20 kHz system $8,640
As above, two subwoofers $10,800

D15A-5 Powered Subwoofer
Two 15-in woofers with proprietary alignment; amp rated at 500 W rms. 2-way active crossover; bass/midbass EQ; 10-cubic-ft enclosure. FR 19-300 Hz $3,300

S18B-5 Powered Subwoofer
18-in woofer; amp rated at 200 W rms. 2-way active crossover; bass/midbass EQ; 8-cubic-ft enclosure. FR 20-200 Hz $2,500
S15A-5. As above with 15-in driver. FR 20-250 Hz $3,100

S18B Subwoofer
Bass-reflex design with 18-in woofer. 8-cubic-ft enclosure. Power handling 200 W; sens 95 dB; imp 8 ohms. 150 lb $1,260
S15A. As above, 15-in driver. 6-cubic-ft enclosure. FR 30-300 ±1.5 dB; sens 92 . Optional finish. 130 lb $1,350

JS AUDIO

DC1 4-Way Speaker
Bass-reflex design with two 10-in woofers, two 4-in cone midranges, and four 1-in dome tweeters. Crossover points 400 Hz, 4 kHz and 10 kHz; FR 22 Hz-20 kHz ±2 dB; imp 8 ohms. Oak. 8 x 61 x 16 in; 100 lb $5,400/pr

Model 612P 3-Way Speaker
Bass-reflex design with two 12-in woofers, two 5-in cone midranges, and four 1-in dome tweeters. Power handling 15 W min, 350 W max; crossover points 600 Hz, 4 kHz and 10 kHz; FR 24 Hz-22 kHz ±3 dB; imp 8 ohms. Oak. 16 x 74 x 12 in; 150 lb . .$4,800/pr

Mesa II 3-Way Speaker
Transmission-line design with 12-in woofer, 2-in dome midrange, 1½-in and 1-in dome tweeters. Power handling 15 W min, 250 W max; crossover points 400 Hz, 3 kHz and 10 kHz; FR 25 Hz-25 kHz ±2 dB; imp 8 ohms. Oak. 16 x 33 x 15 in; 90 lb $4,000/pr

Model 415 15 5-Way Speaker
Bass-reflex design with two 15-in woofers, one 4-in cone midrange, and one 1-in dome tweeter. Power handling 15 W min, 350 W max; crossover points 300 Hz, 600 Hz, 4 kHz, 10 kHz, and 14 kHz; FR 24 Hz-22 kHz ±3 dB; imp 8 ohms. Oak. 19 x 48 x 12 in; 125 lb $3,800/pr

Model 415P 4-Way Speaker
Bass-reflex design with one 15-in woofer, one 5-in cone midrange, one 1-in dome tweeter, and two 1-in horn tweeters. Power handling 15 W min, 350 W max; crossover points 600 Hz, 4 kHz and 12 kHz; FR 22 Hz-24 kHz ±3 dB; imp 8 ohms. Oak. 9 x 36 x 12 in; 100 lb $2,900/pr

Model 412T 4-Way Speaker
Bass-reflex design with 12-in woofer, 5-in cone midrange, 1-in dome tweeter, and 1-in horn tweeter. Power handling 350 W; crossover points 600 Hz, 4 kHz, and 10 kHz; FR 24 Hz-23 kHz ±3 dB; imp 8 ohms. 8 x 33 x 16 in; 65 lb $2,500/pr
Model 412P. As Model 412T, oak. 16 x 27 x 12 in; 75 lb $2,100/pr

Model 310N 3-Way Speaker
Bass-reflex design with two 15-in drivers, four cone midranges, and one 1-in dome tweeter. Power handling 50 W min, 200 W max; crossover points 700 Hz and 3 kHz; FR 32 Hz-22 kHz ±3 dB; imp 8 ohms. Oak. 14 x 24 x 10 in; 60 lb $1,700/pr

Model 310P 3-Way Speaker
Bass-reflex design with 10-in woofer, 5-in cone midrange, and 1-in dome tweeter. Power handling 10 W min, 200 W max; crossover points 700 Hz and 4 kHz; FR 28 Hz-22 kHz ±3 dB; imp 8 ohms. Oak. 14 x 24 x 10 in; 60 lb $1,600/pr

Model 38P 3-Way Speaker
Bass-reflex design with 8-in woofer, 3-in cone midrange, and 1-in dome tweeter. Power handling 10 W min; crossover points 700 Hz and 4 kHz; FR 32 Hz-22 kHz ±3 dB; imp 8 ohms. Oak. 12 x 19 x 10 in; 33 lb $1,100/pr

Subwoof Subwoofer
Bass-reflex design with 15-in driver. Power handling 50 W min, 250 W max; crossover point 120 Hz; FR 20-120 Hz; imp 8 ohms. Oak. 18 x 18 x 19 in; 78 lb $950

Bipolar 3-Way Surround Speaker
Bipolar design with one 6½-in woofer, two 5-in cone midranges, and two 1-in dome tweeters. Crossover points 300 Hz and 4 kHz; FR 60 Hz-22 kHz ±2 dB; imp 6 ohms. 11 x 11 x 5 in; 20 lb $900/pr

Model 26P 2-Way Speaker
Bass-reflex design with 6-in woofer and 1-in dome tweeter. Power handling 10 W min; crossover point 2.5 kHz; FR 40 Hz-22 kHz ±3 dB; imp 8 ohms. Oak. 10 x 16 x 11 in; 23 lb $650/pr
Model 28P. As above, 8-in woofer. FR 38 Hz-22 kHz ±4 dB; imp 8 ohms. Oak. 12 x 19 x 10 in; 25 lb $650/pr

Center 3-Way Center-Channel Speaker
Acoustic-suspension design with two 6½-in woofers, one 5-in cone midrange, and one 1-in dome tweeter. Crossover points 600 Hz and 4 kHz; FR 50 Hz-20 kHz ±2 dB; imp 6 ohms. 9 x 26 x 6 in; 25 lb $600

Model 26J 2-Way Speaker
Acoustic-suspension design with 6-in woofer and 1-in dome tweeter. Power handling 10 W min; crossover point 2.5 kHz; FR 46 Hz-21 kHz ±4 dB; imp 8 ohms. Oak. 8 x 12 x 8 in; 18 lb $450/pr

JVC

SX-PRO3 3-Way Powered Speaker System
2 speakers, each with built-in subwoofer with 5⅜-in ported-cone driver; 5-in cone woofer and 1¼-in dome tweeter; 120-W amp Dolby Pro Logic processor/amp built into one speaker. Magnetic shielding. TV and aux inputs; center and rear outputs. Three 3D-phonic and Matrix DSP surround modes. Includes remote control. FR 30 Hz-20 kHz. Gray tower with cloth grille. 9½ x 40 x 15½ in $800

SX-ST1 Powered Subwoofer/Satellite System
3-speaker system featuring subwoofer with 5⅜-in cone woofer; 2 satellites, each with 4-in cone full-range woofer; 90-W Dolby Pro Logic processor/amp. Magnetic shielding. TV and aux inputs; center and rear outputs. Three 3D-phonic and Matrix DSP surround modes. Includes remote control and remote eye sensor. Gray sub/sat. Black metal grille on satellite. Subwoofer: 7 x 17¾ x 19 in; 25 lb. Satellite: 5½ x 8⅛ x 5⅝ in; 3 lb $580
SS-UL3. Stands for satellites $100/pr

SX-XSW22 Home Theater System
6-speaker system featuring 80-W powered subwoofer with an 8-in down-firing driver; 5 magnetically-shielded satellite speakers. All drivers tuned-port design; circuit protected. Line- and speaker-level inputs; speaker-level outputs. Variable level and crossover control. Includes universal ball-joint wall brackets. Crossover point 150 Hz; FR 35 Hz-150 kHz ±3 dB subwoofer, 150 Hz-20 kHz ±3 dB satellite; sens 90 dB; imp 8 ohms. Black. 3-yr warranty. Center satellite: 8⅝ x 4⅜ x 3⅞ in; 2 lb. L/R satellites: 4⅜ x 5⅝ x 3⅞ in; 1 lb. Subwoofer: 12½ x 10¾ x 12½ in; 24 lb $500

SX-F7TH 3-Way Speaker
Bass-reflex design with built-in subwoofer with 6½-in cone driver; 6½-in cone woofer and 1-in dome tweeter. Magnetic shielding. Speaker base. Power handling 120 W; FR 32 Hz-20 kHz; imp 8 ohms. Black with cloth grille. 3-yr carry-in parts-and-labor warranty. 9½ x 40 x 15½ in; 37 lb $440/pr

SP-X5TH Center/Surround System
3-piece system with center-channel with dual 4-in cone woofers and 2-in cone tweeter; two surround speakers, each with 4-in full-range cone driver. Bass reflex design. Magnetic shielding on center speaker. Power handling 80 W center, 40 W surround; FR 75 Hz-20 kHz center, 80 Hz-18 kHz surround; imp 8 ohms. Black with cloth grille. 3-yr carry-in parts-and-labor warranty. Center: 15 x 5¾ x 6¼ in; 5 lb. Surround: 6 x 7⅛ x 6¼ in; 2 lb . . .$180
SS-UL3. Stands for surround speakers . . .$100/pr

SPXS6BK Surround Speaker
5-in driver. Columnar design. Power handling 90

W; FR 50 Hz-12 kHz; sens 83 dB; imp 8 ohms. 3-yr carry-in parts-and-labor warranty $180/pr

KEF

Uni-Q drivers have integral, center-mounted tweeters.

TDM 23F 3-Way THX Speaker
Acoustic-suspension design with two 6 x 9-in woofers in separate enclosure, two 3-in midranges, and one ¾-in soft-dome tweeter. THX-certified; magnetic shielding. Boundary-compensation device adjusts output for TV or wall-mount placement. Includes stands. Power handling 175 W; crossover points 500 Hz and 5 kHz; FR 70 Hz-20 kHz ±3 dB; sens 90 dB; imp 4 ohms. Black or white finish. 5-yr warranty. 28 x 13 x 8 in; 33 lb $1,700/pr

TDM 34DS 3-Way Dipolar Surround Speaker
4th-order dipolar acoustic-suspension design with one 6 x 9-in woofer in separate enclosure, two 6½-in midranges, and two ¾-in soft-dome tweeters in Uni-Q assembly. THX-certified. Dipole output. Boundary-compensation device adjusts bass balance. Includes wall mount. Power handling 175 W; crossover points 200 Hz and 4 kHz; FR 80 Hz-20 kHz ±3 dB; sens 88 dB; imp 4 ohms. Black or white finish. 5-yr warranty. 12 x 17 x 8 in; 22 lb $1,250/pr

TDM 45B Powered Subwoofer
Acoustic-suspension design with 15-in coated-pulp-cone driver; amp rated at 300 W rms. THX-certified; magnetic shielding; high current amp with DSP. Line- and speaker-level input and output. Auto-turn on; level- and crossover-adjust; defeatable THX crossover. Crossover point variable from 50-150 Hz, 80 Hz THX; FR 35-150 Hz ±3 dB. Black ash finish. 5-yr warranty. 18 x 18 x 20 in; 62 lb . . .$1,200

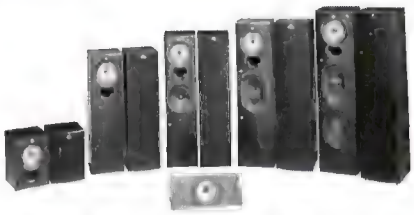
TDM 23C 3-Way THX Center-Channel Speaker
Acoustic-suspension design with two 6 x 9-in woofers in separate enclosure, two 3-in midranges, and one ¾-in soft-dome tweeter. THX-certified; magnetic shielding. Boundary-compensation device adjusts output for TV or wall-mount placement. Includes wall-mount bracket. Power handling 175 W; crossover points 500 Hz and 5 kHz; FR 80 Hz-20 kHz ±3 dB; sens 90 dB; imp 4 ohms. Black or white finish. 10 x 28 x 8 in; 33 lb $850

Model 65DS 3-Way Dipolar Surround Speaker
Dipolar bass-reflex design with one 5-in woofer and two 3-in midranges. Dipole surround; extended response for digital formats. Includes wall mount. Power handling 100 W; crossover point 230 Hz; FR 100 Hz-15 kHz ±3 dB; sens 87 dB; imp 8 ohms. Black or white finish. 9 x 14 x 7 in; 18 lb . . .$600/pr

Model 55S 2-Way Surround Speaker
Acoustic-suspension design with 4-in woofer and ¾-in soft-dome tweeter. Molded construction. Built-in wall mount/stand. Power handling 50 W; crossover point 3 kHz; FR 120 Hz-20 kHz ±3 dB; sens 90 dB; imp 6 ohms. Matte gray or white finish. 5-yr warranty. 8 x 6 x 4 in; 4 lb $200/pr

Reference Series
Model Four 4-Way Speaker
Two 10-in woofers, two 6½-in woofers, and one 6½-in midrange with 1-in silk-dome tweeter in Uni-Q assembly. Woofers in dual-coupled cavity with interport and joined by force-canceling rod. Gold-plated biampable terminals. Power handling 50 W min, 400 W max; crossover point 160 Hz, 500 Hz, and 2.8 kHz; FR 35 Hz-20 kHz ±3 dB; sens 92 dB; imp 4 ohms. Rosetta Burr finish. 12 x 48 x 16 in; 108 lb $6,000/pr
Black ash or rosewood finish $5,500/pr

Model Three 4-Way Speaker
Two 8-in woofers, one 6½-in woofer, and one 6½-in midrange with integral 1-in silk-dome tweeter in Uni-Q assembly. Twin coupled-cavity bass-loading with force-canceling rod connecting woofers.



KEF Q Series

Gold-plated biampable terminals. Power handling 50 W min, 300 W max; crossover points 150 Hz, 400 Hz, and 3 kHz; FR 40 Hz-20 kHz ±3 dB; sens 91 dB; imp 4 ohms. Rosetta Burr finish. 11 x 45 x 16 in; 90 lb $3,600/pr
Black ash or rosewood finish $3,400/pr

Model Two 3-Way Speaker
Two 6½-in woofers and one 6½-in midrange with integral 1-in silk-dome tweeter in Uni-Q assembly. Twin coupled-cavity bass-loading with force-canceling rod connecting woofers. Gold-plated biampable terminals. Power handling 50 W min, 200 W max; crossover points 150 Hz and 3 kHz; FR 45 Hz-20 kHz ±3 dB; sens 90 dB; imp 4 ohms. Rosetta Burr finish. 9 x 40 x 14 in; 50 lb $2,600/pr
Black ash or rosewood finish $2,500/pr
Model One. As above, single woofer in single-coupled cavity. Crossover points 130 and 3 kHz; FR 55-20 kHz ±3 dB; sens 89 dB. Rosetta Burr finish. 9 x 35 x 14 in; 40 lb $2,000/pr
Black ash or rosewood finish $1,800/pr

Model 200C 3-Way Center-Channel Speaker
Two 6½-in woofers and one 6½-in midrange with 1-in coincident soft-dome tweeter in Uni-Q assembly. Magnetic shielding. Power handling 30 W min, 200 W max; crossover points 400 Hz and 2.7 kHz; FR 55 Hz-20 kHz; sens 90 dB. Video-gray finish. 7 x 30 x 6¾ in; 24 lb $1,000

Model 100 2-Way Center-Channel Speaker
Bass-reflex design with 6½-in woofer with integral 1-in ferrofluid-cooled soft-dome tweeter in Uni-Q assembly. Magnetic shielding. Power handling 175 W; FR 70 Hz-20 kHz ±3 dB; sens 90 dB; imp 6 ohms. Gray. 18 x 6⅞ x 6¾ in; 12 lb $500

Q-95c 2-Way Center-Channel Speaker
Single-reflex design with 6½-in woofer with integral ¾-in ferrofluid-cooled soft-dome tweeter in Uni-Q assembly. Magnetic shielding. Includes horizontal/vertical bracket mount. Power handling 150 W; FR 80 Hz-20 kHz ±3 dB; sens 87 dB; imp 6 ohms. Gray. 15⅝ x 6⅞ x 6¾ in; 9 lb $350

Reference A/V Series
AV1 Powered THX Subwoofer
Two 10-in drivers; 400-W amp. THX-certified; coupled-cavity design with force-canceling rod joining driver magnets. XLR and RCA inputs; speaker-level inputs; line-level output filtered below 100 Hz; unfiltered line-level output. Blend control for phase compensation relative to satellites; variable input level and low-pass crossover point. FR 22-150 Hz ±3 dB stereo. Rosewood finish. 22 x 16⅞ x 19¾ in; 102 lb $3,700
Black ash finish $3,500

Model 70S 2-Way Surround Speaker
Acoustic-suspension design with 6½-in woofer with integral ¾-in fluid-cooled soft-dome tweeter in Uni-Q assembly. Injection-molded structural-foam enclosure; magnetic shielding. Gold-plated terminals. Wall, stand, or bracket mount. Power handling 100 W; FR 120 Hz-20 kHz ±3 dB; sens 87 dB; imp 6 ohms. Gray. 6¾ x 10 x 4¾ in; 7 lb $500/pr

Q Series
The following use a reflex-loaded design and have gold-plated biampable terminals and magnetic shielding.

Q-75 3-Way Speaker
6 x 9-in woofer, 6 x 9-in ABR, and ½-in midrange with integral ¾-in fluid-cooled soft-dome tweeter in Uni-Q coincident-driver assembly. Power handling 175 W; FR 36 Hz-20 kHz ±3 dB; sens 91 dB; imp 6 ohms. Available in rosewood or black-ash wood veneer. 39½ x 9 x 11 in; 44 lb $1,500/pr

Q-65 3-Way Speaker
6 x 9-in woofer and 6½-in midrange with integral ¾-in fluid-cooled soft-dome tweeter in Uni-Q coincident-driver assembly. Power handling 175 W; FR 38 Hz-20 kHz ±3 dB; sens 91 dB; imp 6 ohms. Available in rosewood or black-ash wood veneer. 36½ x 9 x 11 in; 36 lb $1,200/pr

Q-55 3-Way Speaker
6½-in woofer and 6½-in midrange with integral ¾-in fluid-cooled soft-dome tweeter in Uni-Q coincident-driver assembly. Power handling 150 W; FR 40 Hz-20 kHz ±3 dB; sens 91 dB; imp 6 ohms. Black or mahogany. 33½ x 8⅛ x 9⅞ in; 29 lb $800/pr

Q-35 2-Way Speaker
6½-in woofer with integral ¾-in fluid-cooled soft-dome tweeter in Uni-Q coincident-driver assembly. Power handling 100 W; FR 45 Hz-20 kHz ±3 dB; sens 91 dB; imp 6 ohms. Available in black or mahogany finish. 29½ x 8⅛ x 9⅞ in; 25 lb $600/pr
Q-15. As above, bookshelf version. FR 50 Hz-20 kHz ±3 dB. 12¼ x 8⅛ x 9⅞ in; 12 lb $350/pr

Monitor Series
The following have gold-plated biampable terminals and red, cherry, or gray lacquer finishes.

RDM Two 2-Way Bookshelf Speaker
Reflex-loaded design with 6½-in woofer with integral 1-in ferrofluid-cooled soft-dome tweeter in Uni-Q assembly. Magnetic shielding. Power handling 175 W; FR 75 Hz-20 kHz ±3 dB; sens 90 dB; imp 6 ohms. 13 x 9⅝ x 10 in; 80 lb $1,200/pr

RDM One 2-Way Bookshelf Speaker
Acoustic-suspension design with 6½-in woofer with integral 1-in ferrofluid-cooled soft-dome tweeter in Uni-Q assembly. Power handling 125 W; FR 85 Hz-20 kHz ±3 dB; sens 88 dB; imp 6 ohms. 11⅞ x 9⅝ x 8¾ in; 31 lb $900/pr

Home Theater Series
The following have magnetic shielding.

Model 35b Powered Subwoofer
Acoustic-suspension design. 12-in driver; 100-W amp. Variable crossover; line- and speaker-level inputs; filter outputs. Auto turn-on; switchable music/video response modes; phase control switch; bicolor LED status indicator. FR 40-150 Hz. Black ash finish. 14⅝ x 15¼ x 16⅞ in; 30 lb $700

Model 25b Powered Subwoofer
Acoustic-suspension design with 10-in driver; 75-W amp. Video electronic crossover. Line- and speaker-level inputs; filtered outputs. Auto turn-on; phase-control switch; front-panel LED indicator. FR 40-150 Hz. Video-gray finish. 12 x 12 x 12 in; 21 lb $499

Model 60S 2-Way Speaker
Bass-reflex design with 5¼-in woofer and 3½-in midrange with integral fluid-cooled tweeter in Uni-Q assembly. Power handling 10 W min, 60 W max; FR 100 Hz-20 kHz; sens 89 dB. Gray or white finish. 9⅞ x 6 x 8¼ in; 4 lb $320/pr

Model 80C 2-Way Center-Channel Speaker
Bass-reflex design with 5¼-in woofer and 3½-in midrange with integral fluid-cooled tweeter in Uni-Q assembly. Power handling 10 W min, 75 W max; FR 80 Hz-20 kHz; sens 89 dB. Video-gray finish. 6 x 17¾ x 6½ in; 6 lb $200

Custom In-Wall Series
Ci-200QT 2-Way Ceiling Speaker
8-in Kevlar-composite woofer and 1-in soft-dome

tweeter in Uni-Q assembly. Motor-driven tilt-down ceiling-mount housing for retractable operation. Power handling 150 W max; crossover point 3.5 kHz; FR 50 Hz-20 kHz; sens 90 dB; imp 8 ohms $500

Ci-200Q 2-Way In-Wall Speaker
8-in Kevlar-composite woofer with integral 1-in soft-dome tweeter in Uni-Q assembly. Power handling 150 W max; crossover point 3.5 kHz; FR 50 Hz-20 kHz; sens 90 dB; imp 8 ohms. Round or square bezel $300

Ci-130DS 2-Way In-Wall Surround Speaker
One 5¼-in Kevlar-composite woofer and two 3½-in Kevlar-composite dual-cone mid/high-frequency drivers. Jumper-configurable bipole or dipole radiation pattern. Power handling 80 W max; FR 75 Hz-16 kHz; imp 4 ohms $275

Ci-160Q 2-Way In-Wall Speaker
6½-in Kevlar-composite woofer with integral ¾-in soft-dome tweeter in Uni-Q assembly. Power handling 100 W max; crossover point 3.5 kHz; FR 60 Hz-20 kHz; sens 87 dB; imp 8 ohms. Round or square bezel $250

Ci-130Q 2-Way In-Wall Speaker
5¼-in Kevlar-composite woofer with integral ¾-in soft-dome tweeter in Uni-Q assembly. Power handling 80 W max; crossover point 3.5 kHz; FR 75 Hz-20 kHz; sens 86 dB; imp 8 ohms. Round or square bezel $175

Ci-160F In-Wall Speaker
6½-in Kevlar-composite dual-cone driver. Power handling 100 W max; FR 60 Hz-16 kHz; sens 87 dB; imp 8 ohms. Round or square bezel $100

Ci-130F In-Wall Speaker
5¼-in Kevlar-composite dual-cone driver. Power handling 80 W max; FR 75 Hz-16 kHz; sens 86 dB; imp 8 ohms. Round or square bezel $90

KENWOOD

HTB-401 Powered Home Theater System
System powered by 300-W Dolby Digital receiver. 2 main speakers, each with two 4-in woofers and one 1½-in tweeter; center speaker with 4-in full-range driver; 2 surround speakers, each with 4-in full-range driver; powered subwoofer with 8-in woofer, 100-W amp, active crossover, and EQ. Receiver with PCM auto detection, crystal semiconductor 20-bit A/D and D/A converters, and KAM-1 amp design. 3 composite-video inputs; coaxial and optical digital inputs; composite-video output; line-level front-, center-, and subwoofer-channel outputs; video monitor output. Dolby Digital and Dolby Pro Logic modes; 3 user-programmable macros; proprietary input deletion and renaming on remote control and front panel. FR 40 Hz-20 kHz $600
HTB-301. As above, 600-W receiver; no Dolby Digital or PCM; no crystal semiconductor 20-bit A/D and D/A converters; cable TV audio reception ready $600
HTB-201. As HBT-301 without line-level front-, center-, and subwoofer-channel outputs on receiver; not cable-TV ready; 4-in woofer and 2-in tweeter for each main speaker; passive bass-reflex subwoofer $400

KVS-400 3-Way Speaker
Bass-reflex design with 8-in woofer, 4-in polypropylene-cone midrange, and ¾-in tweeter. Multi-element crossover network; magnetic shielding. 5-way binding posts. Power handling 140 W; FR 40 Hz-20 kHz; imp 8 ohms. Black. 11 x 38 x 11⅞ in; 35 lb $350/pr

Model 1050SW Powered Subwoofer
Bass-reflex design with 12-in driver; 150-W amp. Sigma Servo; clipping indicator; auto crossover filter slopes. Line-level input; speaker-level inputs and outputs for left and right speakers. 2 listening modes (music, movies); phase switch; motorized variable-output-level control; auto power on/off. Includes remote control. Crossover point variable from 50-200 Hz; FR 30-200 Hz. Black ash . . .$350
Model 103SW. As above, 12-in woofer and 100 W amp; FR 35-200 Hz $250

KVS-300 3-Way Speaker
Bass-reflex design with 8-in woofer, 4-in polypropylene-cone midrange, and ¾-in tweeter. Multi-element crossover network; magnetic shielding. 5-way binding posts. Power handling 120 W; FR 45 Hz-20 kHz; imp 8 ohms. Black. 11 x 35½ x 11⅞ in; 30 lb $250/pr

KVS-200 2-Way Speaker
Bass-reflex design with 6½-in woofer and ¾-in tweeter. Multi-element crossover network; magnetic shielding. Power handling 100 W; FR 55 Hz-20 kHz; imp 8 ohms. Black. 8¾ x 17⅞ x 8¾ in; 14 lb $170/pr

CRS-300 Center/Surround System
3-piece system featuring one magnetically shielded center speaker with two 4-in full-range drivers; two surround speakers, each with 4-in full-range driver. Acoustic-suspension design for each speaker. Surround speakers are wall-mountable. Power handling 100 W center, 40 W surround. Black ash $100

KINETIC AUDIO

Stat Classic 2-Way Bookshelf Speaker
Tapered-line design with two 6½-in mineral-filled-polymer woofers with rubber surrounds; one 1⅛-in silk soft-dome tweeter. MDF construction. Bi-ampable/triampable terminals. Tweeter level control; removable rounded grille. Power handling 100 W; crossover points 750 Hz and 3 kHz; FR 34 Hz-22 kHz ±3 dB; sens 93 dB; imp 4 or 6 ohms. Oak or walnut wood veneer. 12 x 20 x 9 in; 50 lb . . .$2,800/pr

Direct 3-Way Speaker
Tapered-line design with 12-in mineral-filled polymer cone with rubber surround, 2-in dome midrange, and 1-in fabric double-magnet soft-dome tweeter. MDF construction. Biampable terminals. Midrange- and tweeter-level controls. Power handling 150 W; crossover points 1 and 5 kHz; FR 20 Hz-20 kHz ±3 dB; sens 91 dB; imp 4 or 8 ohms woofer, 8 ohms midrange and tweeter. Black-oak or natural clear-oak veneer. 15 x 40 x 15 in; 125 lb $2,500/pr

Rex 3-Way In-Wall Speaker
12-in mineral-filled polymer woofer, 2-in midrange, and 1⅛-in dome tweeter, all linear-phase arranged. Tweeter cooled and damped with magnetic liquid; mirror-imaging. Biampable terminals. Level controls. Power handling 200 W max; crossover points 750 Hz and 5 kHz; FR 18 Hz-22 kHz ±2.5 dB; sens 91 dB; imp 8 ohms. 13 x 26 x 6 in; 35 lb $1,800/pr

Trapezoid Subwoofer
12-in mineral-filled polymer dual-voice-coil driver. Gold-plated biampable 5-way binding posts; woofer-bypass terminals. Power handling 350 W max; crossover point 90 Hz; FR 16 Hz-2 kHz ±2 dB; sens 92 dB; imp 2, 4, or 8 ohms. Walnut, oak-veneer, or black finish. 16 x 40 x 14 in; 110 lb $1,200
As above, utility finish and without grille. 15 x 40 x 15 in $900

Imprimis Subwoofer
Vented design with 12-in mineral-filled polypropylene dual-voice-coil driver. Gold-plated biampable 5-way binding posts; woofer-bypass terminals. Power handling 350 W max; crossover point 90 Hz; FR 18 Hz-2 kHz ±3 dB; sens 93 dB; imp 2, 4, or 8 ohms. Walnut, oak-veneer, or black finish. 15 x 26 x 15 in; 85 lb $1,000
As above, utility finish without grille $850

Alternative 3-Way Speaker
Woofer, tweeter, and supertweeter. Tower with attached base design. Power handling 100 W; FR 20 Hz-20 kHz ±3 dB; sens 92 dB; imp 8, 6, or 2 ohms. Walnut, oak-veneer, or black finish. 15 x 38 x 12 in $800

Stat 2-Way In-Wall Speaker
6½-in mineral-filled polymer woofer and 1⅛-in dome tweeter. Dome tweeter is cooled and damped with magnetic liquid and has replaceable voice coil; nonresonant 1-in-thick MDF baffle/panel. Level control. Power handling 100 W max; crossover point 2 kHz; FR 36 Hz-20 kHz ±2.5 dB; sens 90 dB; imp 8 ohms. Several colors available finish. 9 x 14 x 3½ in; 19 lb $800/pr

Alternative Subwoofer
Tower with attached base design. Power handling 100 W; sens 92 dB; imp 8, 6, or 2 ohms. Walnut, oak-veneer, or black finish $700

Elective In-Wall Subwoofer
12-in mineral-filled-polymer dual-voice-coil driver. 90 Hz passive crossovers with bypass terminals. Power handling 150 W max; FR 20 Hz-2 kHz ±2.5 dB; sens 91 dB; imp 2, 4, or 8 ohms. Several colors available. 19 lb $500

3-Point Crossover. Low-pass passive-mono crossover that may be built into Kinetic Audio subwoofers. Crossover points 60, 90, and 180 Hz. Mid/high-pass filter. Level control $250
4-Point Crossover. 60, 90, 180, 350 Hz $250

Inclusive Series
The following have a 6½-in mineral-filled-polymer midrange with inverted rubber surrounds, a 1- to 2-in MDF enclosure, biampable terminals, and level controls. They carry a 5-year limited warranty. Several veneer finishes are available.

Standard 5-Way Speaker
Two 12-in mineral-filled-polymer woofers with rubber surrounds and three metal-dome tweeters, 2, 1½, and 1 in. Includes stands. Power handling 250 W; crossover points 45, 65, 75, 90 Hz, 1, 4, or 10 kHz; FR 14 Hz-22 kHz ±2 dB; sens 90 dB; imp 2, 4, or 8 ohms. 18 x 78½ x 22 in; 405 lb $20,000

Labyrinth 4-Way Speaker
One 12-in mineral-filled-polymer woofers with rubber surround and two metal-dome tweeters, 2 and 1 in. Power handling 150 W; crossover points 90 Hz, 1 kHz, or 5 kHz; FR 18 Hz-22 kHz ±2.5 dB; sens 91 dB; imp 2, 4, or 8 ohms. 15 x 52½ x 18 in; 245 lb $12,000

Purist Series
The following have rounded sides, a vented design, liquid tweeter cooling/damping, cross-vented magnet structures, a linear-phase driver arrangement in mirror-image pairs, front-panel fuse protection, bypass for electronic crossovers, and level controls. They have oak, walnut-veneer, or black finishes.

Nonpareil 5-Way Speaker
12-in mineral-filled polymer-cone woofer, 6½-in mineral-filled polymer-cone woofer, 2-in dome midrange, 1½-in dome tweeter, and 1-in supertweeter. Gold-plated biampable 5-way binding posts. Stands, pointed stems, and casters are included. Power handling 200 W max; crossover point selectable at 60 Hz, 90 Hz, 180 Hz, or 5 kHz; FR 12 Hz-22 kHz ±2 dB; sens 90 dB; imp 6 ohms. 15 x 60 x 22 in; 365 lb $15,000/pr

Ethereal 4-Way Speaker
12-in mineral-filled polymer-cone woofer, 6½-in mineral-filled polymer-cone woofer, 2-in dome midrange, and 1-in dome tweeter. Gold-plated biampable/triampable 5-way binding posts. Stands, pointed stems, and casters are included. Power handling 200 W max; crossover point selectable at 90 Hz, 180 Hz, 500 Hz, or 750 Hz; FR 16 Hz-22 kHz ±2 dB; sens 90 dB; imp 6 ohms. 15 x 54 x 20 in; 250 lb $11,000/pr

Refined 4-Way Speaker
12-in mineral-filled polymer-cone woofer, 6½-in

mineral-filled polymer-cone woofer, 2-in midrange, and 1-in dome tweeter. Gold-plated biampable/triampable 5-way binding posts. Stands, pointed stems, and casters are included. Power handling 200 W max; crossover point selectable at 90 Hz, 180 Hz, 750 Hz, or 1 kHz; FR 18 Hz-22 kHz; imp 8 ohms. 15 x 48 x 16 in; 170 lb $8,500/pr

Inversion 3-Way Speaker
12-in mineral-filled polymer-cone woofer, 2-in dome midrange, and 1-in titanium-dome tweeter. Gold-plated biampable/triampable 5-way binding posts. Power handling 200 W max; crossover point selectable at 750 Hz, 1 kHz, 7 kHz, and 9 kHz; FR 18 Hz-22 kHz ±2 dB; sens 92 dB; imp 8 ohms. 15 x 40 x 15 in; 95 lb $6,000/pr

Exception 2-Way Speaker
Bass-reflex design with 6½-in mineral-filled polymer-cone woofer and 1⅛-in dome tweeter. Gold-plated biampable 5-way binding posts. Power handling 100 W max; crossover points 1.8 and 2.8 kHz; FR 38 Hz-22 kHz ±2 dB; sens 93 dB; imp 8 ohms. 10 x 26 x 10 in; 45 lb $4,000/pr

Original Series
The following have a linear-phase driver arrangement in mirror-image pairs, rounded side panels, a TATL vented design, and an oak or walnut veneer or black finish.

Standard 5-Way Speaker
Vented design with two 12-in mineral-filled polymer woofers, one 6½-in mineral-filled polymer-cone woofer, one 2-in dome midrange, one 1½-in dome tweeter, and one 1-in dome supertweeter. Gold-plated 5-way binding posts. Power handling 200 W max; crossover points 60 Hz, 90 Hz, 500 Hz, 3 kHz, and 7 kHz; FR 12 Hz-22 kHz ±2 dB; sens 91 dB; imp 6 ohms. 18 x 72 x 22 in; 265 lb $14,000/pr

Trapezium 5-Way Speaker
12-in mineral-filled polymer woofer, 6½-in mineral-filled polymer-cone woofer, 2-in dome midrange, 1½-in liquid-cooled-and-damped dome tweeter, and one 1-in dome supertweeter. Biampable terminals. Level controls. Power handling 200 W max; crossover points 90 Hz, 750 Hz, 3.5 kHz, and 9 kHz; FR 12 Hz-22 kHz ±2 dB; sens 90 dB; imp 6 ohms. 15 x 72 x 20 in; 250 lb $12,000/pr

Labyrinth 4-Way Speaker
12-in mineral-filled polymer woofer, 6½-in mineral-filled polymer-cone woofer, 2-in dome midrange, and 1⅛-in liquid-cooled-and-damped synthetic-dome tweeter. Biampable terminals. Level controls. Power handling 200 W max; crossover points 180 Hz, 750 Hz, and 7 kHz; FR 16 Hz-22 kHz ±2 dB; sens 90 dB; imp 6 ohms. 15 x 48 x 18 in; 195 lb $9,000/pr

Trapezoid 4-Way Speaker
12-in mineral-filled polymer woofer, 6½-in mineral-filled polymer-cone midrange, 1½-in dome tweeter, and 1-in liquid-cooled-and-damped dome supertweeter. Biampable terminals. Level controls. Power handling 200 W max; crossover points 180 Hz, 2 kHz and 9 kHz; FR 18 Hz-22 kHz ±2 dB; sens 91 dB; imp 8 ohms. 15 x 40 x 15 in; 135 lb $7,000/pr

Identity (Impulse) 3-Way Speaker
12-in mineral-filled polymer woofer, 6½-in mineral-filled polymer-cone midrange, and 1⅛-in liquid-cooled-and-damped dome tweeter. Biampable terminals. Level controls. Power handling 200 W max; crossover points 180 Hz and 2.5 kHz; FR 18 Hz-22 kHz ±2.5 dB; sens 91 dB; imp 8 ohms. 15 x 26 x 15 in; 135 lb $5,000/pr

Stat Miniature Monitor 2-Way Bookshelf Speaker
6½-in mineral-filled-polymer woofer and 1⅛-in liquid-cooled-and-damped dome tweeter. Biampable terminals. Level control. Power handling 100 W max; crossover point 2 kHz; FR 38 Hz-22 kHz ±2.5 dB; sens 90 dB; imp 6 ohms. 9 x 15 x 9 in; 50 lb $3,000/pr

Kinetic Audio Trapezium

Home Theater MultiMedia Series
The following are available with rounded or square sides and clear or black-oak-veneer panels.

Exclusive 4-Way Speaker
Vented design with 12-in mineral-filled-polymer woofer with rubber surround; 6½-in mineral-filled-polymer midrange with rubber surround; 2-in dome mid/tweeter; 1-in tweeter. 1-in MDF enclosure. Biampable terminals. Level controls for midrange and tweeters. Power handling 150 W; crossover points 1 and 5 kHz; FR 20 Hz-20 kHz ±3 dB; sens 91 dB; imp 2, 4, or 8 ohms. 15 x 40 x 15 in; 135 lb $3,500/pr

Exemplar 4-Way Speaker
12-in mineral-filled-polymer woofer, 6½-in mineral-filled polymer-cone woofer, 2-in dome midrange, and 1-in dome tweeter. Power handling 150 W max; crossover points 350 Hz, 1 kHz, and 6 kHz; FR 20 Hz-20 kHz ±3 dB; sens 90 dB; imp 8 ohms. 15 x 44 x 15 in; 115 lb $3,500/pr

Efficiency Tower 3-Way Speaker
12-in mineral-filled-polymer woofer, 2-in dome midrange, and 1-in dome tweeter. Power handling 150 W max; FR 25 Hz-20 kHz ±3 dB; sens 91 dB; imp 8 ohms. 15 x 38 x 12 in; 80 lb $2,100/pr

Traditional 2-Way Speaker
Adjustable open- or closed-vent design with 12-in mineral-filled-polymer woofer and 1-in dome tweeter. Power handling 150 W max; crossover point 2 kHz; FR 30 Hz-20 kHz ±3 dB; sens 91 dB; imp 8 ohms. 15 x 25 x 12 in; 50 lb $1,500/pr

Nouveau 2-Way Bookshelf Speaker
Bass-reflex design with 8-in or 6½-in woofer and 1-in liquid-cooled damped-dome tweeter. Replaceable tweeter voice-coil; flush driver mounting. Power handling 100 W max; crossover point 2.5 kHz; FR 38 Hz-20 kHz ±2.5 dB; sens 95 dB; imp 6 ohms. 10 x 16 x 8 in; 38 lb $950/pr

Event 2-Way Bookshelf Speaker
Bass-reflex design with 6½-in mineral-filled-polymer woofer and 1-in dome tweeter. Flush driver mounting. Power handling 80 W max; crossover point 2.5 kHz; FR 48 Hz-20 kHz ±3 dB; sens 90 dB; imp 6 ohms. 8 x 12 x 7 in; 25 lb $850/pr

KLH
Model 82T 3-Way Speaker
Tuned-port design with two 7-in polypropylene woofers, one 3-in soft-dome midrange, and one 1-in dome tweeter. Gold-plated 5-way binding posts. Power handling 250 W max; crossover points 200 Hz, 800 Hz, and 3 kHz; FR 35 Hz-20 kHz; sens 87 dB; imp 6 ohms. Simulated oak or black woodgrain finish. 9 x 38 x 11¼ in; 47 lb $450
Model 62T. As above, 5¼-in cone midrange . . .$350

ASW12-120 Powered Subwoofer
Bass-reflex design with front-firing 12-in paper-cone driver; amp rated at 120 W rms. Line- and speaker-level inputs. Power, volume, auto shut-off, crossover-frequency, and phase controls. Crossover point adjustable from 50-200 Hz; FR 24-200 Hz. Black finish. 18 x 21¾ x 16 in; 55 lb $400
ASW10-100. As above, front-firing 10-in paper-cone driver; 100-W amp. FR 30-200 Hz. 13¾ x 16¾ x 16¼ in; 40 lb $300

AV1001 2-Way Satellite Speaker
5¼-in paper-cone woofer and ⅞-in liquid-cooled dome tweeter. Magnetic shielding. Power handling 5-100 W; FR 80 Hz-20 kHz; imp 8 ohms. Black finish. 6⅜ x 10⅞ x 6⅞ in; 16 lb $100/pr

Model 46 3-Way Satellite Speaker
4-in polypropylene-cone woofer, 1¾-in polycarbonate-cone midrange, and ⅜-in Mylar piezo-dome tweeter. Cast-polystyrene enclosure. Includes antique-white mounting bracket. Power handling 5-40 W; FR 90 Hz-20 kHz; sens 85 dB; imp 4 or 6 ohms. Antique white. 5⅝ x 8⅛ x 5⅛ in $99/pr
Model 45B. As above, black $99/pr

Model 270A 3-Way Outdoor Speaker
4-in polypropylene-cone woofer, 1¾-in polycarbonate-cone midrange, and ⅜-in Mylar piezo-dome tweeter. Weather-resistant enclosure. Includes mounting brackets and hardware. Power handling 5-40 W; FR 90 Hz-20 kHz; imp 4 or 6 ohms. Black. 4⅝ x 7⅜ x 4⅜ in; 6 lb $50/pr

Home Theatre Systems
HTA-510 Home Theater System
6-piece system with 100-W powered subwoofer with 10-in driver; one magnetically-shielded center speaker with two 3⅝-in fiber-cone woofers and one ⅝-in dome tweeter; 4 matching magnetically-shielded satellite speakers, each with two 3⅜-in fiber-cone woofers and one ⅝-in dome tweeter. Subwoofer line- and speaker-level inputs. Subwoofer power, volume, auto shut-off, crossover-frequency, and phase controls. Includes connection cable. Power handling 100 W; crossover point adjustable from 50-200 Hz; FR 28 Hz-20 kHz system; imp 8 ohms. Black finish $500

HTA-810 Home Theater System
6-piece system with 100-W powered subwoofer with 10-in driver; one magnetically-shielded center speaker with two 3⅝-in fiber-cone woofers and one ⅝-in dome tweeter; 4 magnetically-shielded satellite speakers, each with 3⅜-in fiber-cone woofer and ⅝-in dome tweeter. Subwoofer line- and speaker-level inputs. Subwoofer power, volume, auto shut-off, crossover-frequency, and phase controls. Power handling 100 W; crossover point adjustable from 50-200 Hz; FR 30 Hz-20 kHz system; imp 8 ohms. Black finish. Subwoofer: 13¾ x 16¾ x 16¼ in. Center: 12½ x 4¼ x 5 in. Satellite: 4¼ x 7 x 5⅛ in $450

HTA-809 Home Theater System
6-piece system with 80-W powered subwoofer with 8-in driver; one magnetically-shielded center speaker with two 3⅝-in woofers and one ⅝-in dome tweeter; four magnetically-shielded satellite speakers, each with 3⅝-in fiber-cone woofer and ⅝-in dome tweeter. Subwoofer line- and speaker-level inputs. Subwoofer power, volume, auto shut-off, crossover-frequency, and phase controls. Includes brackets for satellites. Power handling 5-100 W; crossover point adjustable from 50-200 Hz; FR 35 Hz-20 kHz system; imp 8 ohms. Black finish. Subwoofer: 11 x 13⅜ x 13¼ in. Center: 12½ x 4¼ x 5 in. Satellite: 4 x 6⅜ x 5 in $400

Professional Series
The following have radius-edged cabinets with a black woodgrain vinyl finish.

Model 71 4-Way Speaker
Dual-ported bass-reflex design with 15-in paper-cone woofer, 5¼-in cone midrange, 3-in Kapton tweeter, and 1-in dome tweeter. Power handling 5-350 W; crossover points 900 Hz and 2.8 kHz; FR 20 Hz-20 kHz; sens 92 dB; imp 8 ohms. 5-yr parts-and-labor warranty. 18½ x 37½ x 12 in; 58 lb $270

Model 51 3-Way Speaker
Acoustic-suspension design with 12-in polymer woofer, 12-in polymer passive radiator, 5¼-in midrange, and 1-in dome tweeter. Power handling 5-325 W; crossover points 900 Hz and 2.8 kHz; FR 20 Hz-22 kHz; sens 90 dB; imp 8 ohms. 15¼ x 42½ x 11¾ in; 50 lb $250

Model 41 3-Way Speaker
Vented design with 12-in polymer woofer, 5¼-in midrange, and 1-in dome tweeter. Power handling 5-290 W; crossover points 900 Hz and 2.8 kHz; FR 24 Hz-22 kHz; sens 90 dB; imp 8 ohms. 5-yr parts-and-labor warranty. 15¼ x 29 x 11¾ in; 37 lb $200

Model 21 2-Way Bookshelf Speaker
Vented design with 6½-in polypropylene woofer and 1-in dome tweeter. Magnetic shielding. Power handling 5-120 W; crossover point 2.8 kHz; FR 50 Hz-22 kHz; sens 88 dB; imp 8 ohms. 5-yr parts-and-labor warranty. 9 x 15½ x 8⅞ in; 27 lb $200/pr

Model 311 3-Way Bookshelf Speaker
Vented design with 8-in polypropylene woofer, 5¼-in midrange, and ⅞-in polycarbonate tweeter. Magnetic shielding. Power handling 5-140 W; FR 50 Hz-20 kHz; sens 89 dB; imp 8 ohms. 11 x 22½ x 10 in; 44 lb $200/pr

Video Series
The following have magnetic shielding and a black textured-vinyl finish.

V-354 2-Way Center-Channel Speaker
Four 5-in cast-polypropylene woofers and one 1-in titanium-dome tweeter. Power handling 175 W max; crossover points 700 Hz, 1.9 kHz, and 3 kHz; FR 90 Hz-20 kHz; sens 86 dB; imp 8 ohms. 25 x 6½ x 8 in $250

V-41 2-Way Speaker
Four 5-in cast-polypropylene woofers and one 1-in ferrofluid-cooled aluminum-dome tweeter. Power handling 175 W max; crossover points 700 Hz, 1.9 kHz, and 3 kHz; FR 90 Hz-20 kHz; sens 86 dB; imp 8 ohms. 6½ x 40 x 8 in $250

V-02 2-Way Satellite Speaker
Vented design with 4½-in cast-polypropylene woofer and 1-in aluminum-dome tweeter. Power handling 5-100 W; FR 80 Hz-20 kHz; sens 86 dB; imp 8 ohms. 5-yr, parts and labor warranty. 6½ x 11¾ x 8¾ in; 21 lb $230/pr

Series II
The following use a vented design with a 5¼-in liquid-cooled paper-cone midrange and one 1-in liquid-cooled dome tweeter. They have magnetic shielding, come in a black or light-oak woodgrain-vinyl finish, and carry a 5-year parts-and-labor warranty.

Model 283A 3-Way Speaker
Two 8-in polypropylene woofers. Power handling 5-250 W; crossover points 900 Hz and 2.8 kHz; FR 25 Hz-22 kHz; sens 90 dB; imp 8 ohms. 10⅛ x 36 x 11 in; 36 lb $230

Model 83A 3-Way Bookshelf Speaker
8-in polypropylene woofer. Power handling 5-140 W; crossover points 900 Hz and 2.8 kHz; FR 50 Hz-20 kHz; sens 89 dB; imp 8 ohms. 10¼ x 21 x 11¾ in; 23 lb $230/pr

Model 183A 3-Way Speaker
8-in polypropylene woofer. Power handling 5-200 W; crossover points 900 Hz and 2.8 kHz; FR 35 Hz-22 kHz; sens 90 dB; imp 8 ohms. 10⅛ x 36 x 11 in; 37 lb $200

Platinum Series
The following have a ⅞-in liquid-cooled dome tweeter, magnetic shielding, and a black finish. They carry a 3-year parts-and-labor warranty.

Model 325 2-Way Satellite Speaker
Two 3⅝-in paper-cone woofers. Includes mounting brackets. Power handling 5-125 W; FR 80 Hz-20 kHz; sens 88 dB; imp 8 ohms. 5⅛ x 12¼ x 6 in; 10 lb $150/pr

Model 525 2-Way Center-Channel Speaker
Four 3⅝-in paper-cone woofers. Power handling 5-125 W; FR 80 Hz-20 kHz; sens 88 dB; imp 8 ohms. 19½ x 5⅛ x 5½ in; 9 lb $150

KLIPSCH

KSP 400 3-Way Speaker/Powered Subwoofer
Acoustic-suspension design with built-in powered subwoofer with 15-in driver and 200-W amp; speaker section with two 6½-in midranges and one 1-in horn tweeter. Line- and speaker-level inputs. Subwoofer-level control; bass EQ. Includes brass spike feet. Crossover points 80 Hz and 3 kHz; FR 27 Hz-20 kHz; sens 95 dB; imp 8 ohms. Wood veneer. 5-yr speaker, 2-yr amp warranty. 8¾ x 48 x 19¾ in; 115 lb $1,749
KSP 300. As above, subwoofer with 12-in driver and 150-W amp; one 6½-in midrange. No bass EQ or spike feet. Power handling 150 W; crossover points 120 Hz and 2.6 kHz; FR 32-20 kHz; sens 94 dB. 8¾ x 42 x 18 in; 78 lb $999

KSW-300 Powered Subwoofer
Bass-reflex design with 15-in driver; amp rated at 300 W rms. LFE-, line-, and speaker-level inputs; line- and speaker-level outputs. Adjustable high- and low-pass filters. FR 25-120 Hz ±3 dB. Black matte vinyl. 5-yr speaker, 2-yr amp warranty $999

KLF 30 3-Way Speaker
Bass-reflex design with two 12-in woofers, one 1½-in horn midrange, and one 1-in horn tweeter. Biampable inputs. Power handling 200 W; crossover points 825 Hz and 7 kHz; FR 36 Hz-20 kHz ±3 dB; sens 102 dB; imp 8 ohms. Wood veneer. 5-yr warranty. 14 x 45¼ x 16 in; 102 lb $900

KLF 20 3-Way Speaker
Bass-reflex design with two 10-in woofers, 1½-in horn midrange, and 1-in horn tweeter. Biampable inputs. Power handling 200 W; crossover points 750 Hz and 7 kHz; FR 34 Hz-20 kHz ±3 dB; sens 100 dB; imp 8 ohms. Wood veneer. 5-yr warranty. 12 x 40¾ x 16 in; 87 lb $750

KSW 200 Powered Subwoofer
Bass-reflex design with down-firing 12-in driver; 200-W amp. 3 line-level inputs; 2 speaker-level inputs; 2 line- and speaker-level outputs. Main level; auto power on; 2-position phase switch. Crossover point variable from 40-120 Hz; FR 29-120 Hz. Black matte vinyl. 17½ x 18¾ x 17½ in; 69 lb $649

KLF-C7 2-Way Center Speaker
Acoustic-suspension design with two 8-in woofers and one 1-in horn tweeter. Includes leveling feet. Power handling 150 W; crossover point 2 kHz; FR 75 Hz-20 kHz ±3 dB; sens 99 dB; imp 8 ohms. 5-yr warranty. 27¼ x 11 x 9 in; 38 lb $600

KLF-10 2-Way Speaker
Bass-reflex design with two 10-in polymer-cone woofers and one 1-in horn tweeter. Power handling 150 W; crossover point 2.3 kHz; FR 32 Hz-20 kHz ±3 dB; sens 98 dB; imp 8 ohms. 5-yr warranty. 12 x 38¾ x 16 in; 65 lb $550

KSW-150 Powered Subwoofer
Bass-reflex design with down-firing 10-in driver; 150-W amp. 3 line-level inputs; 2 speaker-level inputs; 2 line- and speaker-level outputs. Main level, variable low-pass, 2-position high-pass, auto power on, 2-position phase switch. Crossover point variable from 40-120 Hz; FR 31-120 Hz. Black matte vinyl. 15 x 16¼ x 15 in; 48 lb $549
KSW-100. As above, 8-in down-firing driver; 100-W amp. FR 34-120 Hz ±3 dB. Black matte vinyl. 13½ x 14¾ x 13½ in; 39 lb $449

KSF-10.5 2-Way Speaker
Bass-reflex design with two 8-in woofers and one 1-in horn tweeter. Magnetic shielding. Power handling 100 W; crossover point 2.2 kHz; FR 36 Hz-20 kHz ±3 dB; sens 95 dB; imp 8 ohms. Black ash and rosewood vinyl. 5-yr warranty. 10¼ x 38 x 12½ in ..$400

KSP-S6 2-Way Surround Speaker
Acoustic-suspension design with two 6-in woofers and two 1-in horn tweeters. Includes wall-mounting brackets. Power handling 150 W; crossover point 2.8 kHz; FR 60 Hz-20 kHz; sens 94 dB; imp 8 ohms. Black matte vinyl. 5-yr warranty. 13½ x 15 x 7¼ in; 20 lb $375
KSF-C6. Center-speaker version of above. Magnetic shielding. Leveling feet. FR 63 Hz-20 kHz. 25½ x 8 x 7¾ in; 28 lb $500

KSF-C5 2-Way Center-Channel Speaker
Bass-reflex design with two 6½-in woofers and one 1-in horn tweeter. Magnetic shielding. Power handling 100 W; crossover point 2.2 kHz; FR 63 Hz-20 kHz ±3 dB; sens 96 dB; imp 8 ohms. Matte black vinyl finish. 5-yr warranty. 24 x 8 x 7 in; 16 lb ..$349

KSW-50 Powered Subwoofer
Bass-reflex design with 8-in down-firing driver; 50-W amp. 2 line- and speaker-level inputs and outputs. Main level; auto power-on; 2-position phase switch. Crossover point variable from 40-140 Hz; FR 41-140 Hz ±3 dB. Black matte vinyl finish. 12 x 13¼ x 12 in; 33 lb $329

KSF-8.5 2-Way Speaker
Bass-reflex design with 8-in woofer and 1-in horn tweeter. Magnetic shielding. Power handling 75 W; crossover point 2.2 kHz; FR 36 Hz-20 kHz ±3 dB; sens 94 dB; imp 8 ohms. Black ash or rosewood vinyl. 5-yr warranty. 10¼ x 35¾ x 12½ in $325

KSC-C1 2-Way Center-Channel Speaker
Acoustic-suspension design with two 5¼-in woofers and one 1-in horn tweeter. Magnetic shielding. Power handling 100 W; crossover point 2.8 Hz; FR 70 Hz-20 kHz ±3 dB; sens 95 dB; imp 8 ohms. Matte black vinyl finish. 5-yr warranty. 20 x 6½ x 7⅛ in; 15 lb $279

IC 800 2-Way Ceiling Speaker
8-in polymer woofer and 1-in soft-dome-swivel tweeter. Power handling 60 W; FR 45 Hz-20 kHz ±3 dB; sens 93 dB; imp 8 ohms. 5-yr warranty. Round frame. Mounting depth 3⅞ in $279

KG-3.5 2-Way Speaker
Bass-reflex design with 8-in and one 1-in horn tweeter. Power handling 100 W; FR 36 Hz-20 kHz ±3 dB; sens 94 dB; imp 8 ohms. 10½ x 33½ x 11½ in; 39 lb $265

KSF-S5 2-Way Surround Speaker
Acoustic-suspension design with one 6½-in woofer and two 1-in horn tweeters. Wide dispersion coverage. Includes wall brackets. Power handling 100 W; crossover point 1.8 kHz; FR 60 Hz-20 kHz ±3 dB; sens 93 dB; imp 8 ohms. Black and white matte vinyl. 5-yr warranty. 18¼ x 8 x 7⅜ in; 13 lb $225

IC 650 2-Way Ceiling Speaker
6½-in polymer woofer and 1-in soft-dome-swivel tweeter. Power handling 50 W; crossover point 3.3 kHz; FR 52 Hz-20 kHz ±3 dB; sens 91 dB; imp 8 ohms. White. 5-yr warranty. Round frame. Mounting depth 3½ in $199

KV1 2-Way Center-Channel Speaker
Bass-reflex design with two 5¼-in woofers and one 1-in horn tweeter. Power handling 75 W; FR 85 Hz-20 kHz ±3 dB; sens 90 dB; imp 8 ohms. 20¼ x 6¾ x 6 in; 15 lb $179

KAW 1.1 2-Way Outdoor Speaker
Bass-reflex design with 5¼-in polymer woofer and 1-in soft-dome tweeter. Port plug for exposed mounting locations. Includes mounting bracket. Power handling 75 W; crossover point 2.8 kHz; FR 65 Hz-20 kHz ±3 dB; sens 92 dB; imp 8 ohms. White. 5-yr warranty. 6¾ x 11 x 6 in; 5 lb $165

IC 525 2-Way Ceiling Speaker
5¼-in polymer woofer and 1-in swiveling soft-dome tweeter. Power handling 50 W; crossover point 4 kHz; FR 60 Hz-20 kHz ±3 dB; sens 90 dB; imp 8 ohms. White. 5-yr warranty. Round frame. Mounting depth 2⅝ in $159

KSB-S1 Surround Speaker
Acoustic-suspension design with two 5¼-in full-range woofers in wide-dispersion array. Power handling 80 W; FR 115 Hz-8 kHz ±3 dB; sens 95 dB; imp 8 ohms. 5-yr warranty. 11½ x 6¾ x 6¾ in; 6 lb $150

Heritage Series
Klipschorn 3-Way Speaker
Horn-loaded design. Power handling 100 W; FR 35 Hz-17 kHz ±3 dB; sens 104 dB; imp 8 ohms. 31¼ x 52 x 28½ in; 167 lb $2,899

Belle Klipsch 3-Way Speaker
Horn-loaded design. Power handling 100 W; FR 45 Hz-17 kHz ±3 dB; sens 104 dB; imp 8 ohms. 30⅛ x 35⅝ x 18¾ in $2,149
La Scala. As above, natural-birch, lacquered-birch, or black finish. 23¾ x 35½ x 24½ in $1,399

Heresy II 3-Way Speaker
Acoustic-suspension design with 12-in woofer, 1½-in horn-loaded compression midrange, and 1-in tweeter. Power handling 100 W; FR 50 Hz-20 kHz ±3 dB; sens 96 dB; imp 8 ohms. 15½ x 21⅜ x 13¼ in; 37 lb $549

In-Wall Series
IW-250 2-Way In-Wall Speaker
Two 6½-in woofers and one 1-in horn tweeter. Power handling 75 W; crossover point 2.2 kHz; FR 40 Hz-20 kHz ±3 dB; sens 93 dB; imp 8 ohms. 8⅞ x 19⅛ x 3½ in $339

IW-150 2-Way In-Wall Speaker
6½-in woofer and 1-in horn tweeter. Power handling 50 W; crossover point 2.2 kHz; FR 40 Hz-20 kHz ±3 dB; sens 90 dB; imp 8 ohms. 8⅞ x 12⅝ x 3½ in $215

IW-50 2-Way In-Wall Speaker
5¼-in woofer and 1-in horn tweeter. Power handling 50 W; crossover point 2.2 kHz; FR 50 Hz-20 kHz ±3 dB; sens 89 dB; imp 8 ohms. 6⅞ x 9½ x 3½ in $159

Synergy Series
The following use a bass-reflex design, have magnetic shielding, and carry a 5-year warranty.

KSB 3.1 2-Way Bookshelf Speaker
8-in woofer and 1-in horn tweeter. Power handling 100 W; crossover point 2.8 Hz; FR 45 Hz-20 kHz ±3 dB; sens 94 dB; imp 8 ohms. Black ash and rosewood vinyl. 9¼ x 17 x 9¼ in; 16 lb $215

KSB 2.1 2-Way Bookshelf Speaker
6½-in woofer and 1-in horn tweeter. Power handling 85 W; crossover point 2.8 Hz; FR 55 Hz-20 kHz ±3 dB; sens 93 dB; imp 8 ohms. Black ash and rosewood vinyl. 7½ x 15 x 8 in; 11 lb $165

KSB 1.1 2-Way Bookshelf Speaker
5¼-in woofer and 1-in horn tweeter. Power handling 75 W; crossover point 2.8 Hz; FR 65 Hz-20 kHz ±3 dB; sens 92 dB; imp 8 ohms. Black or white finish. 6¾ x 11 x 6 in; 5 lb $115
Wall-mount brackets $17.95

KORT

The following use a dipolar design.

Foundation 3 Subwoofer
15-in driver. Power handling 200 W; FR 25-200 Hz; sens 87 dB; imp 6 ohms. 20 x 17 x 9 in $350

Microline3 Dipolar Satellite Speaker
Six 2-in full-range drivers. Magnetic shielding. Power handling 100 W; FR 200 Hz-21 kHz; sens 87 dB; imp 6 ohms. 13 x 7 x 5 in $350

Iota Dipolar Satellite Speaker
Two 3-in full-range drivers. Magnetic shielding. Power handling 50 W; FR 100 Hz-18 kHz; sens 87 dB; imp 8 ohms. 7 x 7 x 5 in $200

L.A. ROCKER

The Carlsbad, El Paso, River Rock, Little Rock, Mesa Rock, and Reef Rock are weather-resistant outdoor speakers camouflaged as rocks. The rock casing is made of glass, fiber, and reinforced concrete and carries a limited lifetime warranty.

BR-8/WG 2-Way Outdoor Speaker
12-in woofer and 3-in tweeter. Power handling 250 W max; FR 55 Hz-20 kHz. Weathered granite finish. 43 x 24 x 21 in; 180 lb $1,550

CW-302 2-Way Outdoor Speaker
4¼-in woofer and 1-in swivel tweeter. Wall or floor mounting available. Power handling 80 W max; FR 9 Hz-20 kHz. Gray finish. 20 x 14 x 63 in; 200 lb $1,550

JL-8 2-Way Outdoor Speaker
8-in woofer and two 3-in tweeters. Power handling 250 W max; FR 55 Hz-20 kHz. Aged and burnt wood finish. 33 x 27 x 17 in; 180 lb $1,190

Carlsbad Series
The following are finished in multitone brown or gray finishes, measure 24 x 21 x 16 in, and weigh approximately 95 lb. Power handling is 120 W max and impedance is 8 ohms.

CR-602 2-Way Outdoor Speaker. 5¼-in woofer and 1-in swivel tweeter. FR 70 Hz-20 kHz ...$710
CR-503 3-Way Outdoor Speaker. 5¼-in woofer, 2-in Mylar tweeter, and ½-in dome supertweeter. FR 60 Hz-22 kHz $700
CR-502 2-Way Outdoor Speaker. 5¼-in woofer and 2-in Mylar tweeter $690

El Paso Series. *The following are available in multitone brown, multitone gray, or granite finishes, measure 24 x 21 x 16 in, and weigh approximately 85 lb. Power handling is 120 W max and impedance is 8 ohms.*

EP-602 2-Way Outdoor Speaker. 5¼-in woofer and 1-in swivel tweeter. FR 70 Hz-20 kHz ...$600
EP-503 3-Way Outdoor Speaker. 5¼-in woofer, 2-in Mylar tweeter, and ½-in dome supertweeter. FR 60 Hz-22 kHz $595
EP-502 2-Way Outdoor Speaker. 5¼-in woofer and 2-in Mylar tweeter $580

Reef Rock Series. *The following are available in black, coral-gray, or red finishes, measure 17 x 16 x 11 in, and weigh approximately 45 lb. Unless otherwise noted, power handling is 120 W max and impedance is 8 ohms.*

RRP-602 2-Way Outdoor Speaker. 5¼-in woofer and 1-in swivel tweeter. FR 70 Hz-20 kHz ...$500
RRP-503 3-Way Outdoor Speaker. 5¼-in woofer, 2-in Mylar tweeter, and ½-in dome supertweeter. FR 60 Hz-22 kHz $495
RRP-502 2-Way Outdoor Speaker. 5¼-in woofer and 2-in Mylar tweeter $485
RR-302 3-Way Outdoor Speaker. 4¼-in woofer and 1-in swivel tweeter. Power handling 80 W max; FR 90 Hz-20 kHz $410
RR-203 3-Way Outdoor Speaker. 4¼-in woofer, 2-in Mylar tweeter, and ½-in dome supertweeter. Power handling 100 W; FR 90 Hz-22 kHz $405
RR-202 2-Way Outdoor Speaker. 4¼-in woofer and 2-in Mylar tweeter. Power handling 80 W max $395

Mesa Rock Series
The following are available in multitone brown, multitone gray, granite, or sandstone finishes, measure 23 x 16 x 10 in, and weigh approximately 45 lb. Unless otherwise noted, power handling is 120 W max and impedance is 8 ohms.

MRP-602 2-Way Outdoor Speaker. 5¼-in woofer and 1-in swivel tweeter. FR 70 Hz-20 kHz ...$460
MRP-503 3-Way Outdoor Speaker. 5¼-in woofer, 2-in Mylar tweeter, and ½-in dome supertweeter. FR 60 Hz-22 kHz $455
MRP-502 2-Way Outdoor Speaker. 5¼-in woofer and 2-in Mylar tweeter $445
MR-302 3-Way Outdoor Speaker. 4¼-in woofer and 1-in swivel tweeter. Power handling 80 W max; FR 90 Hz-20 kHz $370
MR-203 3-Way Outdoor Speaker. 4¼-in woofer, 2-in Mylar tweeter, and ½-in dome supertweeter. Power handling 100 W; FR 90 Hz-22 kHz $365
MR-202 2-Way Outdoor Speaker. 4¼-in woofer and 2-in Mylar tweeter. Power handling 80 W max $355

River Rock Series
The following are available in granite or sandstone finishes, measure 23 x 21 x 11 in, and weigh approximately 45 lb. Unless otherwise noted, power handling is 120 W max and impedance is 8 ohms.

GRP-602 2-Way Outdoor Speaker. 5¼-in woofer and 1-in swivel tweeter. FR 70 Hz-20 kHz ...$460
GRP-503 3-Way Outdoor Speaker. 5¼-in woofer, 2-in Mylar tweeter, and ½-in dome supertweeter. FR 60 Hz-22 kHz $455
GRP-502 2-Way Outdoor Speaker. 5¼-in woofer and 2-in Mylar tweeter $440
GR-302 2-Way Outdoor Speaker. 4¼-in woofer and 1-in swivel tweeter. Power handling 80 W max; FR 90 Hz-20 kHz $370
GR-203 3-Way Outdoor Speaker. 4¼-in woofer, 2-in Mylar tweeter, and ½-in dome supertweeter. Power handling 100 W max; FR 90 Hz-22 kHz $365
GR-202 2-Way Outdoor Speaker. 4¼-in woofer and 2-in Mylar tweeter. Power handling 80 W max $350

Little Rock Series
The following are available in multitone brown, multitone gray, granite, and sandstone finishes, measure 16 x 14 x 10 in, and weigh approximately 40 lb. Unless otherwise noted, power handling is 120 W max and impedance is 8 ohms.

LRP-602 2-Way Outdoor Speaker. 5¼-in woofer and 1-in swivel tweeter. FR 70 Hz-20 kHz ...$400
LRP-503 3-Way Outdoor Speaker. 5¼-in woofer, 2-in Mylar tweeter, and ½-in dome supertweeter. FR 60 Hz-22 kHz $395
LRP-502 2-Way Outdoor Speaker. 5¼-in woofer and 2-in Mylar tweeter $380
LR-302 3-Way Outdoor Speaker. 4¼-in woofer and 1-in swivel tweeter. Power handling 80 W max; FR 90 Hz-20 kHz $310

Prices given are the suggested retail prices. Dealer prices may vary.

LR-203 3-Way Outdoor Speaker. 4¼-in woofer, 2-in Mylar tweeter, and ½-in dome supertweeter. Power handling 100 W max; FR 90 Hz-22 kHz $300
LR-202 2-Way Outdoor Speaker. 4¼-in woofer and 2-in Mylar tweeter. Power handling 80 W max $295

LEGACY AUDIO

The following are available in hand-rubbed walnut, black-lacquer, oak, ribbon-mahogany, or rosewood finishes and carry a 10-year warranty.

Whisper 4-Way Speaker
Four 15-in pulp-composite woofers, four 7-in Kevlar woofers, one 1¼-in soft-dome midrange, and one samarium-cobalt ribbon tweeter. Active crossover with room-correction circuitry; resin baffle. Biampable terminals. Power handling 1,200 W; crossover points 300 Hz, 3 kHz, and 10 kHz; FR 22 Hz-30 kHz; sens 94 dB; imp 4 ohms. 17 x 63 x 13 in; 265 lb $12,900/pr

Focus 4-Way Speaker
Three 12-in carbon-polypropylene woofers, two 7-in Kevlar woofers, one 1¼-in soft-dome midrange, and one samarium-cobalt ribbon tweeter. Internal bracing; rolled-tambour front corners. Biampable terminals. Power handling 1,000 W; crossover points 180 Hz, 2.2 kHz, and 12 kHz; FR 16 Hz-30 kHz; sens 96 dB; imp 4 ohms. 15 x 55 x 13 in; 175 lb $5,400/pr

Signature III 4-Way Speaker
Three 10-in carbon-polypropylene woofers, one 7-in woofer, one 7-in Kevlar woofer, one 1¼-in soft-dome midrange, one 1-in rear-firing titanium tweeter, and one samarium-cobalt ribbon supertweeter. Dipole response above 5 kHz; slot-loaded woofers. Biampable terminals. Power handling 400 W max; crossover points 120 Hz, 2.8 kHz, and 10 kHz; FR 20 Hz-30 kHz; sens 93 dB; imp 4 ohms. 12 x 50 x 12 in; 130 lb $3,850/pr

Classic 5-Way Speaker
Two 10-in carbon-polypropylene woofers, one 7-in Kevlar woofer, one 1¼-in soft-dome midrange, one 1-in rear-firing titanium tweeter, and one samarium-cobalt ribbon supertweeter. Dipole response above 5 kHz. Biampable terminals. Power handling 300 W; crossover point 120 Hz, 2.8 kHz, and 10 kHz; FR 22 Hz-30 kHz ±2 dB; sens 92 dB; imp 4 ohms. 12 x 44 x 12 in; 110 lb $2,650/pr

Pace Maker Powered Subwoofer
Two 15-in pulp-composite woofers; 400-W amp. Vented 4th-order tuned enclosure plus 2nd-order crossover network. Crossover point selectable at 55 or 80 Hz; FR 16-80 Hz. 42 x 18 x 18 in; 150 lb $2,450

Marquis 4-Way Center-Channel Speaker
Two 10-in woofers, one 7-in Kevlar woofer, one 1¼-in soft-dome midrange, and one ribbon tweeter. Gold-plated binding posts. Power handling 400 W; crossover points 300 Hz, 3 kHz and 10 kHz; FR 80 Hz-30 kHz; sens 92 dB; imp 4 ohms $2,400/pr

Accent 2-Way Speaker
4th-order vented design with two 7½-in Kevlar long throw woofers with dual-voice-coils, one front-firing and one rear-firing 1-in titanium-dome tweeter. Magnetic shielding; braced cabinet. Biampable inputs. Bass-contour control. Power handling 200 W; crossover point 2.8 kHz; FR 39 Hz-22 kHz; sens 92 dB; imp 4 ohms. Black, walnut, medium oak, rosewood, or ribbon mahogany. 10-yr warranty. 38 x 10 x 10 in; 45 lb $1,995/pr

Powered Impact Powered Subwoofer
Two 12-in long-throw carbon-polypropylene woofers; 300-W amp. Line- and speaker-level inputs; satellite outputs. Phase control; volume control. Crossover point selectable at 55 or 95 Hz; FR 16-100 Hz. 15¾ x 28½ x 13½ in; 105 lb $1,648

Mist 2-Way Bipolar Surround Speaker
Dual 5¼-in Kevlar woofers and two 1-in titanium-dome tweeters. Gold-plated binding posts. Power handling 200 W; crossover point 3 kHz; FR 59 Hz-22 kHz; sens 90 dB; imp 4 ohms. 6 x 11 x 18 in; 25 lb $1,600/pr

Silver Screen 3-Way Center-Channel Speaker
Two 7-in Kevlar woofers, one 1¼-in soft-dome midrange, and one samarium-cobalt ribbon tweeter. Biampable terminals. Power handling 300 W; crossover points 2.2 and 12 kHz; sens 98 dB; imp 4 ohms. 27½ x 10½ x 10 in; 60 lb $1,295

Studio 2-Way Bookshelf Speaker
7½-in Kevlar dual-voice-coil woofer and 1-in titanium-dome tweeter. Gold-plated binding posts. Power handling 200 W; crossover point 2.8 kHz; FR 39 Hz-22 kHz; sens 90 dB; imp 4 ohms. 10 x 13 x 10 in; 35 lb $948/pr

Cinema III 2-Way Center-Channel Speaker
Two 5½-in Kevlar woofers and one titanium-dome tweeter. Gold-plated binding posts. Power handling 200 W; crossover point 4 kHz; FR 59 Hz-22 kHz; sens 92 dB; imp 4 ohms. 18½ x 7 x 8 in; 25 lb $795

Foundation Subwoofer
Two 12-in long-throw carbon-polypropylene woofers. L/R inputs. Configurable for mono. Power handling 400 W; crossover point selectable at 55 or 95 Hz; FR 22-100 Hz. 15¾ x 27½ x 16 in; 90 lb $795

Micro 2-Way Bookshelf Speaker
5¼-in Kevlar woofer and 1-in titanium-dome tweeter. Gold-plated binding posts. Power handling 125 W; crossover point 2.2 kHz; FR 59 Hz-22 kHz; sens 90 dB; imp 8 ohms. 6¾ x 9 x 7½ in;16 lb . . .$795/pr

LINN

Keltik 3-Way Speaker
Infinite-baffle design with two 6½ x 9⅝-in woofers, one 5-in dome midrange, and one ¾-in ceramic-dome tweeter. Sculptured front baffle; active crossover; internal cabinet bracing; stabilizing internal and external veneers; steel stand. Power handling 80 W; FR 20 Hz-20 kHz ±2 dB; sens 50 dB; imp 4 ohms. Black ash, walnut, rosenut, or cherry finish. 10¼ x 41½ x 14⅞ in $9,995/pr

AV5150 Powered Subwoofer
Bass-reflex design with two 12-in polypropylene-cone drivers; amp rated at 200 W. Switchable roll-off; vertically-braced MDF cabinet; alloy heat sink and chassis. Adjustable damping; auto on/off. Soft-clip circuitry optional $4,195

Kaber 3-Way Speaker
Infinite-baffle design with two 5-in carbon-loaded woofers and one ¾-in ceramic-dome tweeter. Active crossover; granite-composite stand; internal mineral absorbents; stabilizing veneers. Biampable/triampable terminals. Power handling 60 W; FR 40 Hz-20 kHz ±2 dB; sens 87 dB; imp 8 ohms. Black ash, walnut, rosenut, or cherry finish. 7¾ x 36 x 11¼ in $3,875/pr
As above, passive crossover. FR 60 Hz-20 kHz ±3 dB $3,500/pr

AV 5140 3-Way Speaker
Bass-reflex design with 8-in rear-firing woofer, 6-in midrange, and ¾-in ceramic-dome tweeter. Trapezoidal cabinet eliminates internal reflections; aerodynamically contoured ports cast from solid aluminum; tweeter enclosure; internal cabinet bracing; stabilizing internal and external veneers; magnetic shielding. Biampable/triampable terminals. Full-length grille optional. FR 30 Hz-20 kHz ±3 dB; sens 90 dB. Black ash or cherry finish. 9 x 38 x 12 in $2,795/pr

Keilidh 2-Way Speaker
Infinite-baffle design with two 6½-in carbon-filled polypropylene woofers and one ¾-in ceramic-dome tweeter. Active crossover; stabilizing veneers; internal mineral absorbents; magnetic shielding. Biampable terminals. Internal tweeter-level adjustment. Power handling 60 W; FR 45 Hz-20 kHz ±3 dB; sens 87 dB; imp 4 ohms. Black ash, walnut, rosenut, or cherry finish. 8 x 33 x 11 in $1,975/pr
As above, passive crossover. FR 65 Hz-20 kHz ±3 dB $1,300/pr
Polymer-granite base $225/pr

Legacy Audio Pace Maker powered subwoofer

AV 5120 2-Way Center-Channel Speaker
Bass-reflex design with two 6-in woofers and one ¾-in ceramic-dome tweeter. Aerodynamically contoured ports cast from solid aluminum; tweeter enclosure; internal cabinet bracing; stabilizing internal and external veneers; magnetic shielding. Biampable terminals. FR 55 Hz-20 kHz ±3 dB; sens 90 dB. Black ash or cherry finish. 6¾ x 24¼ x 9⅞ in $1,045

Tukan 2-Way Bookshelf Speaker
Infinite-baffle design with 5-in woofer and ¾-in ceramic-dome tweeter. Passive crossover; stabilizing veneers; internal mineral absorbents. Biampable terminals. Power handling 30 W; FR 80 Hz-20 kHz ±3 dB; imp 8 ohms. Black ash, walnut, rosenut, or cherry finish. 7½ x 12 x 7⅜ in $795/pr
K3000. Metal stand for Tukan or Sekrit . . .$150/pr
Brakit. Wall bracket for Tukan or Sekrit $95/pr
Sekrit-Brakit. Corner mounting bracket for Tukan or Sekrit $95/pr

Sekrit 2-Way In-Wall Speaker
Infinite-baffle or bass-reflex design with 6¾-in mineral-filled polypropylene woofer and 1-in aluminum-alloy tweeter. 1-piece baffle molded in structural plastic; rear ribbing to add rigidity; 2nd-order crossover with impedance compensation. Biampable terminals. FR 80 Hz-20 kHz ±3 dB passive; 65 Hz-20 kHz ±3 dB active; sens 90 dB; imp 4 ohms passive. Paintable off-white finish. 7 lb. Rectangular frame. Mounting area: 9⅛ x 17¾ in. Mounting depth 2⅞ in $650/pr

Sekrit 2-Way Speaker
Bass-reflex design with 6¾-in woofer and 1-in aluminum-alloy dome tweeter. Designed for wall hanging. Polymer molded cabinet. Biampable terminals. 1-dB treble reduction on crossover. Stand optional. FR 60 Hz-20 kHz ±3 dB passive, 50 Hz-20 kHz ±3 dB active; sens 90 dB; imp 6 ohms. Black or white. 10 x 18¾ x 4⅞ in; 13 lb . . .$595/pr

AV 5110 2-Way Surround Speaker
3-in woofer and ½-in dome tweeter. Flame retardant; UV-stable cabinet; magnetic shielding. Gold-plated binding posts. Wall mountable. FR 60 Hz-20 kHz ±3 dB; sens 88 dB $295/pr

MACH 1 ACOUSTICS

The following use an infinite-baffle design.

M-Four.Five 4-Way Speaker
Two 10-in woofers, two 5-in cone midranges, one 1-in silk-dome tweeter, and one 2½-in planar tweeter. Power handling 50 W min, 500 W max; FR 30 Hz-35 kHz ±3 dB; sens 92 dB; imp 2 or 4 ohms. Oiled walnut or cherry finish with black-knit grille. 12 x 48 x 16 in; 63 lb $5,995/pr

M-Three 3-Way Speaker
10-in woofer, 5-in cone midrange, and 1-in silk-dome tweeter. Power handling 50 W min, 500 W max; FR 30 Hz-20 kHz ±3 dB; sens 88 dB; imp 4 or 8 ohms. Oiled walnut or cherry finish. 12 x 48 x 16 in; 55 lb $3,995/pr

M-Two.Five 2-Way Speaker
6½-in woofer and 1-in silk-dome tweeter. Power handling 25 W min, 250 W max; FR 70 Hz-20 kHz ±3 dB; sens 92 dB; imp 3 or 6 ohms. Black. 10 x 21 x 10 in; 15 lb $2,495/pr
M-Two. As above, bookshelf version. 5-in woofer. FR 80 Hz-20 kHz ±3 dB. 8 x 18 x 9 in; 5 lb $1,595/pr

M-One 2-Way Bookshelf Speaker
5-in woofer and 1-in silk-dome tweeter. Power handling 50 W min, 250 W max; FR 80 Hz-20 kHz ±3 dB; sens 88 dB; imp 4 or 8 ohms. Black. 8 x 12 x 9 in; 8 lb $1,195/pr

DM Series
The following have a custom finish and grille.

DM-1000 Powered Subwoofer/Satellite System
4-speaker system featuring two 15-in powered subwoofers; two powered satellites, each with one 10-in woofer, two 5-in cone midranges, two ¼-in ceramic inverted-dome tweeters, one 3-in ribbon tweeter. Active crossovers. Crossover points 50 Hz, 300 Hz, and 3 kHz; FR 18 Hz-40 kHz ±3 dB system; sens 88 dB $149,995

DM-100 3-Way Speaker
Two 10-in woofers, two 5-in cone midranges, and two 1¼-in ceramic inverted-dome tweeters. FR 30 Hz-40 kHz ±3 dB; sens 92 dB; imp 2 or 4 ohms. 12 x 48 x 16 in; 73 lb $24,995/pr

DM-10 Signature MkII 3-Way Speaker
10-in woofer, 5-in cone midrange, and 1-in ceramic inverted-dome tweeter. Power handling 50 W min, 1,000 W max; FR 30 Hz-40 kHz ±3 dB; sens 88 dB; imp 4 or 8 ohms. 12 x 48 x 16 in; 68 lb $17,995/pr

DM-5 2-Way Bookshelf Speaker
5-in woofer and 1¼-in ceramic inverted-dome tweeter. FR 80 Hz-25 kHz ±3 dB; sens 88 dB; imp 4 or 8 ohms. 8 x 12 x 9 in; 8 lb $4,995/pr

MAGNEPAN

Except where noted, the following models use planar-magnetic woofer and midrange drive units and are available in light-oak, black, or cherry trim with off-white, black, or gray fabric grilles. Each carries a 3-year limited warranty.

MG-20 3-Way Hybrid Quasi-Ribbon/ Planar-Magnetic Speaker
Planar-magnetic 880-square-in woofer, quasi-ribbon 3 x 48-in midrange, and ⅛ x 60-in ribbon tweeter. Biamplification optional. Power handling 250 W max; FR 25 Hz-40 kHz; sens 85 dB; imp 4 ohms. 29 x 79 in $9,200/pr

MG-3.5 3-Way Hybrid Ribbon/ Planar-Magnetic Speaker
Planar-magnetic 620-square-in woofer, planar-magnetic 170-square-in line-source midrange, and ⅛ x 60-in ribbon tweeter. Biamplification optional. Power handling 250 W max; FR 34 Hz-40 kHz; sens 85 dB; imp 4 ohms. 24 x 71 in $3,150/pr

Magnepan MG12/QR planar magnetic speaker

MG-2.7 3-Way Hybrid Quasi-Ribbon/ Planar-Magnetic Speaker
Planar-magnetic 620-square-in woofer, planar-magnetic 98-square-in midrange, and 1½ x 56-in quasi-ribbon tweeter. Power handling 250 W max; FR 34 Hz-24 kHz; sens 87 dB; imp 4 ohms. 22 x 71 in $1,995/pr

MG1.6/QR 2-Way Hybrid Quasi-Ribbon/ Planar-Magnetic Speaker
Planar-magnetic 442-square-in woofer and 2 x 48-in quasi-ribbon tweeter. Power handling 50 W min, 250 W max; FR 40 Hz-22 kHz ±3 dB; sens 86 dB; imp 4 ohms. 19¼ x 64½ x 2 in; 90 lb $1,475/pr

MG-10.1 2-Way Hybrid Quasi-Ribbon/ Planar-Magnetic Speaker
Planar-magnetic 261-sq-in woofer and 2 x 45-in quasi-ribbon tweeter. Power handling 250 W; FR 80 Hz-24 kHz ±3 dB; sens 86 dB; imp 4 ohms. 10½ x 43 x 1⅜ in; 65 lb $1,175/pr

MG12/QR 2-Way Hybrid Quasi-Ribbon/ Planar-Magnetic Speaker
Planar-magnetic 370-square-in woofer and 2 x 38-in quasi-ribbon tweeter. Power handling 50 W min, 250 W max; FR 45 Hz-22 kHz ±3 dB; sens 86 dB; imp 4 ohms. 17 x 52½ x 1½ in; 65 lb $950/pr

MGCC1 2-Way Hybrid Quasi-Ribbon/ Planar-Magnetic Speaker
Dipolar design with curved 198-square-in woofer and curved 33 x 1¾-in quasi-ribbon tweeter. Designed to be suspended or placed on top of TV monitor or inside cabinet. Power handling 200 W max; FR 160 Hz-20 kHz ±3 dB; sens 85 dB; imp 4 ohms. Natural-oak, black-oak, or cherry trim with off-white, black, or gray fabric. 35 x 10½ x 8 in $750

MMG 2-Way Hybrid Quasi-Ribbon/ Planar-Magnetic Speaker
Planar-magnetic 370-square-in woofer and 1½ x 38 quasi-ribbon tweeter. FR 50 Hz-24 kHz; sens 86 dB; imp 4 ohms. 14½ x 48 in $500/pr

MGSS1 Dipolar Planar-Magnetic Speaker
Planar-magnetic 145-square-in midrange. Includes wall-mounting hardware. Power handling 150 W max; FR 160 Hz-16 kHz; sens 89 dB; imp 4 ohms. White, off-white, black, or gray fabric. 8¼ x 45 x ¾ in; 24 lb $425/pr

M&K SOUND

SS-500THX 2-Way THX Dipolar Surround Speaker
Acoustic-suspension dipolar design with two 5-in polypropylene woofers and two 1-in soft-dome tweeters. THX-certified. Power handling 400 W; FR 100 Hz-20 kHz ±2 dB; sens 88 dB; imp 4 ohms. 14¾ x 6⅝ x 7⅝ in; 22 lb $1,595/pr

MX-700 Powered Subwoofer
Push-pull design with two 8-in drivers; amp rated at 200 W rms. Magnetic shielding. 17½ x 14½ x 12⅛ in; 41 lb $1,395

S-100B 2-Way Satellite Speaker
Acoustic-suspension design with two 5-in polypropylene woofers and three 1-in soft-dome tweeters. 2 switches for tonal/timbre balance. Magnetic shielding optional. Power handling 400 W; FR 77 Hz-20 kHz ±2 dB; sens 91 dB; imp 4 ohms. Glass-bead black finish. 12 x 10 x 8½ in $1,195/pr

S-5000THX 2-Way Surround Speaker
Acoustic-suspension design with two 6½-in polypropylene woofers and two 1-in open-back transmission-line dome tweeters. Trapezoidal enclosure; THX-certified; magnetic shielding. 2 switches for tonal/timbre balance. Power handling 400 W; FR 72 Hz-20 kHz ±2 dB; sens 94 dB; imp 4 ohms. Black oak finish. 24 x 11⅝ x 12 in; 55 lb ...$1,195

S-125 2-Way Satellite Speaker
Acoustic-suspension design with two 5-in polypropylene woofers and one 1-in soft-dome tweeter. 2 sets of inputs for tonal/timbre balance. Integral high-pass filter optional. FR 75 Hz-20 kHz ±2 dB; sens 90 dB; imp 4 ohms. Black lacquer bead finish. 6¼ x 18½ x 8⅜ in; 17 lb $1,100/pr

SS-150 3-Way Tripolar Surround Speaker
Acoustic-suspension design with one 5¼-in polypropylene woofer, two 3½-in mid-tweeters, and one 1-in soft-dome tweeter. Power handling 200 W; FR 85 Hz-20 kHz ±3 dB; sens 86 dB; imp 4 ohms. Black or white lacquer bead finish. 8 x 10½ x 6½ in; 11 lb $1,095/pr

MX-105 Powered Subwoofer
Push-pull design with two 12-in drivers; 125-W amp. Oak or black oak finish $995
As above, black lacquer bead finish $895

S-1C 2-Way Speaker
Acoustic-suspension design with two 5-in polypropylene woofers and two 1-in open-back transmission-line soft-dome tweeters. Push-pull woofer configuration; magnetic shielding. 2 switches for tonal/timbre balance; 3-position switch for vertical directionality. Power handling 400 W; FR 77 Hz-20 kHz ±2 dB; sens 90 dB; imp 4 ohms. Oak or black oak finish. 21 x 7¾ x 10½ in; 19 lb $995

S-150THX 2-Way THX Satellite Speaker
Acoustic-suspension design with two 5¼-in polypropylene woofers and three 1-in dome tweeters. THX-certified; mirror imaging; magnetic shielding. Power handling 200 W; FR 72 Hz-20 kHz ±2 dB; sens 89 dB; imp 4 ohms. Black lacquer bead finish. 10½ x 12½ x 12½ in; 17 lb $795

S-85 2-Way Speaker
Acoustic-suspension design with 5-in polypropylene woofer and 1-in soft-dome tweeter. Integral high-pass filter. 2 sets of inputs for tonal/timbre balance. Magnetic shielding optional. Power handling 200 W; FR 90 Hz-20 kHz ±2 dB; sens 88 dB; imp 4 ohms. Black lacquer bead finish ...$695/pr
S-85C. Horizontally-oriented version of above for center-channel applications $395

S-125C 2-Way Center-Channel Speaker
Acoustic-suspension design with two 5-in polypropylene woofers and one 1-in soft-dome tweeter. Magnetic shielding. 2 sets of inputs for tonal/timbre balance. Integral high-pass filter optional. Power handling 400 W; FR 75 Hz-20 kHz ±2 dB; sens 90 dB; imp 4 ohms. Black lacquer bead finish. 6¼ x 18½ x 8⅜ in; 18 lb $595

SW-95 2-Way In-Wall Speaker
6½-in polypropylene woofer and 1-in soft-dome

tweeter. Frameless in-wall design; steel baffles stiffen dry wall; magnetic shielding. 2 sets of inputs. Tone control. Power handling 200 W; crossover point 2 kHz; sens 92 dB; imp 4 ohms. Black baffle with paintable white grille $550
SW-85. As above, 5¼-in woofer and 1-in tweeter. 5-yr parts-and-labor warranty $350

Bookshelf-75 2-Way Speaker
Acoustic-suspension design with 6½-in polypropylene woofer and 1-in soft-dome tweeter. Power handling 200 W; FR 77 Hz-20 kHz ±3 dB; sens 87 dB; imp 4 ohms. Black ash finish with black grille. 13½ x 8 x 10 in; 17 lb $450/pr

Center-75 2-Way Center-Channel Speaker
Acoustic-suspension design with two 5-in polypropylene woofers and one 1-in soft-dome tweeter. Magnetic shielding. Power handling 200 W; FR 75 Hz-20 kHz ±2 dB; sens 87 dB; imp 4 ohms. Black ash finish with black grille. 18 x 6 x 7½ in; 17 lb $295

LCR-45 2-Way Satellite Speaker
Acoustic-suspension design with 4-in woofer and 1-in dome tweeter. Magnetic shielding. Power handling 150 W. Black or white finish $250

LCR-55 2-Way Satellite Speaker
Acoustic-suspension design with 5¼-in woofer and 1-in dome tweeter. Magnetic shielding. Power handling 200 W. Black or white finish. 5-yr warranty. 10¼ x 7 x 8¼ in; 11 lb $250

Powered Subwoofers
The following use an acoustic-suspension design and incorporate M&K's proprietary headroom-maximizer circuit.

MX-5000THX Mark II Powered Subwoofer
Two 12-in woofers in push-pull driver configuration; amp rated at 400 W. THX-certified; adjustable low-pass filter. Level control. Crossover point adjustable from 50-125 Hz; FR 18-125 Hz. Black oak finish. 23¼ x 15 x 26 in; 115 lb $2,695
MX-200. As above, amp rated at 200 W rms. FR 20-125 Hz ±2 dB. Black or black-oak finish. 23 x 15¼ x 19⅝ in; 78 lb $1,495
MX-125. As MX-200, amp rated at 125 W rms. 70 lb $1,095
MX-70B. As MX-125, 8-in drivers. FR 27-125 Hz ±2 dB. Glass-bead black or white finish. 18 x 10 x 13⅝ in; 48 lb $995

MX-350THX Powered Subwoofer
Two 12-in woofers in push-pull configuration; amp rated at 350 W. THX-certified; magnetic shielding. Low-pass filter that can be converted into 80-Hz 24-dB/oct Linkwitz-Riley crossover when used with M&K HP-80 high-pass filter; level control. Crossover point adjustable from 50-125 Hz; FR 20-125 Hz ±2 dB. Black lacquer bead finish; black grille. 15¼ x 23 x 19⅝ in; 85 lb $1,795
MX-150THX. As above, amp rated at 125 W. 74 lb $1,295

V-125THX Powered Subwoofer
12-in woofer; amp rated at 125 W. Meets THX requirements when two subwoofers are used; magnetic shielding. Adjustable low-pass filter; level control. Crossover point adjustable from 50-125 Hz; FR 22-125 Hz ±2 dB. Black lacquer bead finish. 15⅜ x 18½ x 20¼ in; 52 lb $850
V-125. As above, not THX-certified $795

V-75II Powered Subwoofer
12-in woofer; amp rated at 75 W. Low-pass filter adjustable from 50-125 Hz; level control. FR 30-125 Hz ±2 dB. Black ash finish. 15⅜ x 18½ x 20¼ in; 42 lb $625

VX-7II Powered Subwoofer
8-in woofer; amp rated at 50 W. Low-pass filter adjustable from 50 to 125 Hz; level control. FR 40-125 Hz ±2 dB. Black ash finish. 10 x 13¾ x 10¼ in; 21 lb $495

MARTIN-LOGAN

Monolith III 2-Way Electrostatic Speaker
Curvilinear 2 x 4-ft electrostatic panel mounted atop tuned subwoofer box with 12-in cone driver. Designed for wide dispersion. Active or passive external crossover. Power handling 250 W cont; FR 28 Hz-24 kHz ±3 dB; sens 90 dB; imp 4 ohms. 26½ x 74 x 11½ in; 125 lb $10,000/pr
As above, passive crossover $7,500/pr

Quest Z 2-Way Electrostatic Speaker
18 x 48-in curvilinear electrostatic panel mounted atop tuned subwoofer cabinet with 12-in driver. Power handling 200 W cont; crossover point 180 Hz; FR 30 Hz-22 kHz ±3 dB; sens 90 dB; imp 4 ohms. Various finishes. 18 x 71 x 13 in . . .$4,495/pr

CLS II Z Electrostatic Speaker
2 x 4-ft visually-transparent curvilinear electrostatic panel. 30° horizontal dispersion; arc-free diaphragm. Power handling 200 W cont; FR 35 Hz-20 kHz ±3 dB; sens 86 dB; imp 4 ohms. 28 x 57½ x 14½ in $3,995/pr

SL3 2-Way Electrostatic Speaker
10-in woofer in tuned chamber and 1 x 4-ft visually-transparent electrostatic panel. 30° horizontal dispersion. Power handling 200 W cont; crossover point 250 Hz; FR 30 Hz-22 kHz ±3 dB; sens 89 dB; imp 4 ohms. 13 x 64 x 14 in $3,195/pr

Stylos Electrostatic Speaker
Acoustic-suspension design with 6½-in cone driver in a 10½ x 63½-in curvilinear electrostatic panel. Designed for mounting on a wall, in a wall, or on a stand. Power handling 200 W; crossover point 450 Hz; FR 40 Hz-22 kHz ±3 dB; sens 87 dB; imp 4 ohms. 10½ x 63½ x 4½ in $2,695

Aerius i 2-Way Electrostatic Speaker
8-in woofer and 9½ x 40-in curvilinear electrostatic panel. FR 40 Hz-22 kHz ±3 dB; sens 87 dB; imp 4 ohms. 10½ x 55½ x 12½ in $1,995/pr

Logos 3-Way Electrostatic Center-Channel Speaker
One 6½-in woofer, two curvilinear electrostatic midrange panels, and one 1-in tweeter. FR 75 Hz-20 kHz ±3 dB; sens 89 dB; imp 5 ohms. 40½ x 11⅛ x 9⅝ in $1,750

The Cinema 3-Way Electrostatic Center-Channel Speaker
Two 5¼-in woofers, one electrostatic midrange, and one 1-in ferrofluid-cooled voice-coil. Magnetic shielding. FR 80 Hz-20 kHz ±3 dB; sens 89 dB; imp 6 ohms. 33½ x 10½ x 8 in $1,295

MBL

Model 101D 4-Way Speaker
Omnidirectional design with 12-in cone woofer, TT100 radial woofer, MT50/D radial carbon-fiber midrange, and 101D radial carbon-fiber tweeter. 360° dispersion horizontally and vertically. Bi-ampable terminals. Crossover switches to change speaker response. Power handling 500 W cont; crossover point selectable at 110 Hz, 600 Hz, or 3.5 kHz; FR 20 Hz-40 kHz ±3 dB; sens 81 dB; imp 4 ohms. Piano black or satin black. 3-yr warranty. 16 x 67 x 18 in; 176 lb $32,990/pr
Model 111. As above with built-in conventional midrange and subwoofer. FR 20 Hz-40 kHz; sens 78 dB. 16 x 16 x 63 in; 132 lb $13,900/pr

Model 300 L 4-Way Speaker
Bass-reflex design with three long-throw dual-voice-coil woofers, one ferrofluid-cooled midrange, and one ferrofluid-cooled tweeter. Midrange and tweeter mounted in magnesium and aluminum plate. Power handling 110 W min, 170 W max; FR 28 Hz-45 kHz; sens 86 dB; imp 4 ohms. 8 x 45 x 10 in; 44 lb $5,990/pr

Model 201 Powered Subwoofer
300-W amp. Phase-shift switch; variable level control. Crossover point selectable at 48, 68, or 96 Hz; FR 18-96 Hz. 16 x 16 x 20 in; 66 lb $4,790

Model 311c 3-Way Bookshelf Speaker
Dual-voice-coil woofer, ferrofluid-cooled midrange, and ferrofluid-cooled tweeter. Midrange and tweeter mounted in magnesium and aluminum plate. Power handling 50 W min, 80 W max; FR 38 Hz-45 kHz; sens 84 dB; imp 4 ohms. 8 x 17 x 10 in; 13 lb $3,150/pr

Model 303 2-Way Speaker
5-in midrange and 1-in tweeter. Power handling 60 W min, 90 W max; FR 38 Hz-25 kHz; imp 4 ohms. Custom finish $2,780/pr
Model 323. As above, 5-in woofer. FR 44 Hz-25 kHz $1,790/pr

Model 321 2-Way Bookshelf Speaker
Dual-voice-coil woofer. Power handling 50 W min, 80 W max; FR 43 Hz-34 kHz; sens 84 dB; imp 4 ohms. 7 x 14 x 10 in; 9 lb $1,990/pr

MBL Center Center-Channel Speaker
Coaxial design with 4-ohm impedance. 17 x 5½ x 13 in $820

Model 211 Powered Subwoofer
200-W amp. Level control. Crossover point selectable at 70, 100, or 140 Hz; FR 18-140 Hz. 16 x 18 x 19 in; 55 lb $790

McINTOSH

XR290 3-Way Speaker
Four 12-in woofers, twelve 5-in midranges, and twenty-four 1-in dome tweeters. Overload protection. Power handling 1,200 W max; FR 20 Hz-22 kHz ±2 dB; sens 87 dB; imp 8 ohms. Oak, walnut, or black ash finish. Available by special order only. 28¾ x 83 x 12½ in; 348 lb $27,500/pr

XRT26 3-Way Speaker
Two 12-in woofers, 8-in midrange in one enclosure, and twenty-three 1-in aluminum-dome tweeters in separate column. Overload protection. Includes stand for tweeter column. Power handling 1,000 W max; crossover points 100 Hz, 250 Hz, and 1.5 kHz; FR 32 Hz-22 kHz ±2 dB; sens 87 dB; imp 4 ohms. Walnut or black ash finish. Woofer/midrange cabinet: 20 x 43½ x 15½ in. Tweeter column: 17 x 86 x 15 in $14,000/pr

SL-6 2-Way THX Speaker
Three 6½-in polypropylene woofers and three 1-in metal-dome tweeters. THX-certified. Power handling 75 W min, 300 W max; FR 48 Hz-18 kHz ±2 dB; sens 88 dB; imp 4 ohms. Walnut or black finish. 12½ x 47 x 10 in; 56 lb $2,500/pr

SL-1 Powered Subwoofer
Dual flared-port design with 12-in front-firing woofer; amp rated at 250 W. Proprietary anti-clipping and anti-overdrive circuitry; THX certified; magnetic shielding. Left and right input; line- and speaker-level inputs; jack for remote-controlled turn-on from other McIntosh components. Phase switch; input-level controls; front-panel control; removable base. Crossover point variable from 50-125 Hz; FR 20-250 Hz. Black or walnut veneer finish. 5-yr warranty. 16½ x 23½ x 19 in $2,000

SL-4 2-Way Speaker
Two 6½-in polypropylene woofers and one 1-in metal-dome tweeter. Power handling 75 W min, 150 W max; crossover point 2.4 kHz; FR 54 Hz-20 kHz ±2 dB; sens 87 dB; imp 4 ohms. Black or walnut finish. 10 x 41 x 10¼ in; 47 lb $1,400/pr

HT Series
The following are THX-certified.

HT3F 2-Way In-Wall THX Dipolar Surround Speaker
Dipolar design with two 5-in woofers and two 1-in dome tweeters. Angled baffles. Power handling

150 W; crossover point 1.5 kHz; FR 85 Hz-12 kHz; imp 4 ohms. Textured black with white paintable grille. Round frame. Mounting diameter: 15½ in. Mounting depth 6-in $2,000/pr
HT3W. On-wall version of above $2,000/pr

HT2 THX Subwoofer
Bass-reflex design with two 12-in downward-firing woofers. Power handling 600 W; FR 42-200 Hz ±2 dB; sens 91 dB; imp 4 ohms. Walnut or black ash finish. 30 x 20½ x 20 in; 91 lb $1,750

HT1 2-Way THX Speaker
Two 8-in woofers and three 1-in aluminum-dome tweeters. Rotating tweeter panel. Power handling 300 W; crossover points 500 Hz and 1.4 kHz; FR 55 Hz-22 kHz ±2 dB; sens 89 dB; imp 4 ohms. Walnut or black ash finish. 15½ x 22½ x 10½ in; 42 lb $1,100

HT4 2-Way THX Center-Channel Speaker
Two 6½-in woofers and three 1-in aluminum-dome tweeters. Power handling 200 W; crossover point 1.25 kHz; FR 60 Hz-22 kHz ±2 dB; sens 87 dB; imp 4 ohms. Black ash finish. 21 x 8 x 10⅝ in; 23 lb $1,100

MERLIN

The following have a black polyurethane finish with black knit grille.

VSM Special Edition 2-Way Speaker
Bass-reflex design with 7-in woofer and 1¼-in tweeter. Rigid construction. Biampable terminals. Includes bass EQ and filter. Power handling 200 W; crossover point 2.2 kHz; FR 33 Hz-22 kHz ±3 dB; sens 90 dB; imp 8 ohms. 10-yr warranty. 9 x 43 x 11 in; 80 lb $5,950
VSM GEN III. As above without bass EQ and filter. FR 45 Hz-22 kHz ±3 dB; sens 90 dB; imp 8 ohms. 77 lb $4,500/pr
VSM CC 2-Way Speaker. As VSM Special Edition, no bass EQ and filter. FR 45 Hz-22 kHz ±3 dB. 24 x 9 x 11 in; 44 lb $2,250

TSM 2-Way Speaker
Infinite-baffle design with 6¼-in woofer and 1¼-in tweeter. Rigid construction; magnetic shielding. Biampable terminals. Power handling 80 W; crossover point 2.2 kHz; FR 55 Hz-20 kHz ±2 dB; sens 87 dB; imp 8 ohms. 5-yr warranty. 8 x 16 x 12 in; 26 lb $2,100/pr
TSM CC. As above, 6½-in woofer $1,050

MIRAGE

OM-6 3-Way Speaker/Powered Subwoofer
Powered subwoofer section with 2 side-firing bipolar 8-in drivers; speaker section with two 5½-in injection-molded polypropylene woofers with butyl surrounds and two 1-in titanium/cloth hybrid-hyperbolic-dome tweeters arranged to produce wide omnipolar radiation pattern. 150-W high current discrete MOSFET subwoofer amp with isolated power supply. Line- and speaker-level inputs; biampable terminals. Room bass-EQ adjustment and bass contour. Power handling 200 W; FR 18 Hz-25 kHz ±3 dB; sens 91 dB; imp 6 ohms $3,000/pr

OM-8 3-Way Powered Speaker
Acoustic-suspension design with two 6½-in long-throw polypropylene woofers, two 5½-in injection-molded polypropylene midranges with copolymer baskets and butyl surrounds, and two 1-in tweeters; 100-W amp. MDF construction; multilevel bracing. 2 pr 5-way gold-plated terminals; line-level input. Volume and EQ controls; bass-EQ and contour. Crossover points 100 Hz and 1.9 kHz; FR 28 Hz-22 kHz; sens 91 dB; imp 8 ohms. Black gloss with black cloth knit grille. 10 x 44 x 17 in; 60 lb $2,200/pr

Vitali 2-Way Speaker
Two 5½-in polypropylene woofers with copolymer baskets and butyl surrounds and two 1-in tweeters. MDF construction; multilevel bracing. 2 pr 5-way gold-plated terminals. 5-yr warranty $2,000/pr

Substrata 1500 Powered Subwoofer
One active and one passive 10-in driver; 1500-W amp. Black. 12 x 12 x 12 in $1,500

FRX-9P 3-Way Powered Speaker
Bass-reflex design with 8-in woofer, two 5½-in injection-molded polypropylene midranges with butyl surrounds and ¾-in metal-dome cloth-suspension tweeter; 100-W amp. Molded baffle; multilevel bracing; magnetic shielding. 2 pr 5-way gold-plated terminals; line-level input. Volume and frequency control. Crossover points 100 Hz and 2 kHz; FR 25 Hz-22 kHz; sens 91 dB; imp 8 ohms. 5-yr warranty. 7 x 40 x 13 in $1,300/pr

Center Stage 3-Way Center-Channel Speaker
Two 6½-in injection-molded polypropylene woofers with copolymer baskets and butyl surrounds, two 1½-in midranges, and two 1-in tweeters. MDF construction; multilevel bracing. 1 pr 5-way gold-plated terminals. Black. 5-yr warranty. 24 lb $1,200

OM-10 2-Way Speaker
Bass-reflex design with two 6½-in injection-molded polypropylene woofers with copolymer baskets and butyl surrounds and two 1-in tweeters. MDF construction; multilevel bracing. 2 pr 5-way gold-plated terminals. Power handling 200 W; crossover point 1.9 kHz; FR 28 Hz-22 kHz; sens 90 dB; imp 8 ohms. Black gloss with black cloth knit grille. 5-yr warranty. 9 x 47 x 12 in; 40 lb $1,200/pr
OM-12. As above, two 5½-in injection-molded polypropylene woofers with copolymer baskets and butyl surrounds. Power handling 150 W; crossover point 2 kHz; FR 32 Hz-22 kHz. 9 x 40 x 11 in; 37 lb $900/pr

Substrata 1000 Powered Subwoofer
12-in driver; 1,000-W amp. 16 x 16 x 16 in $1,000

AVS-5000 Home Theater System
6-piece system with a powered subwoofer with an 8-in driver; center speaker with two 3½-in woofers and ½-in tweeter; four 2-way satellites, each with 3½-in woofer and ½-in tweeter. Magnetic shielding; wood construction. 5-way terminals on satellites and center; speaker- and line-level inputs on subwoofer. Volume, phase, and EQ controls. Power handling 100 W; crossover point 2.2 kHz; FR 90 Hz-20 kHz center and satellites, 29 Hz-100 kHz subwoofer; sens 88 dB; imp 8 ohms. Black or white satellites. Center: 11 x 5 x 6 in. Satellites: 5 x 7 x 5 in. Subwoofer: 10 x 15 x 10 in $800

OM-C2 2-Way Center-Channel Speaker
Bass-reflex design with three 5½-in injection-molded polypropylene woofers with copolymer baskets and butyl surrounds and two 1-in tweeters. MDF construction; multilevel bracing. Two pair of 5-way gold-plated terminals. Power handling 175 W; crossover point 2 kHz; FR 38 Hz-22 kHz; sens 90 dB; imp 8 ohms. Black gloss and black cloth knit grille. 5-yr warranty. 25 x 8 x 12 in; 30 lb $750

OM-14 2-Way Speaker
Bass-reflex design with two 5½-in injection-molded polypropylene woofers with copolymer baskets and butyl surrounds and two ¾-in metal-hybrid tweeters. MDF construction; multilevel bracing. Two pair of 5-way gold-plated terminals. Power handling 150 W; crossover point 2 kHz; FR 38 Hz-22 kHz; sens 90 dB; imp 8 ohms. Black gloss with black cloth knit grille. 5-yr warranty. 9 x 35 x 11 in; 32 lb $700/pr

FRX-7 2-Way Speaker
Bass-reflex design with two 5½-in injection-molded polypropylene woofers with butyl surrounds and ¾-in metal-dome cloth-suspension tweeter. Molded baffle; multilevel bracing; magnetic shielding. Two pair of 5-way gold-plated terminals. Power handling 200 W; crossover point 2 kHz; FR 35 Hz-22 kHz; sens 91 dB; imp 8 ohms. 5-yr warranty. 7 x 36 x 13 in $600/pr
FRX-5. As above, 6½-in injection-molded polypropylene woofer with butyl surrounds. Power handling 150 W; FR 40 Hz-22 kHz; sens 90 dB; imp 8 ohms. 7 x 33 x 13 in $500/pr

OM-R2 2-Way Speaker
Acoustic-suspension design with two 5½-in injection-molded polypropylene woofers with copolymer baskets and butyl surrounds and two 1-in tweeters. MDF construction; multilevel bracing. One pair of 5-way gold-plated terminals. Power handling 125 W; crossover point 2 kHz; FR 80 Hz-20 kHz; sens 89 dB; imp 8 ohms. Black or white. 5-yr warranty. 7 x 12 x 7 in; 13 lb $500/pr

FRX-3 2-Way Bookshelf Speaker
Bass-reflex design with 6½-in injection-molded polypropylene woofer with butyl surrounds and ¾-in metal-dome cloth-suspension tweeter. Molded baffle; multilevel bracing; magnetic shielding. Gold-plated 5-way terminals. Power handling 110 W; FR 47 Hz-22 kHz; sens 88 dB; imp 8 ohms. 5-yr warranty. 7 x 14 x 10 in $350/pr

FRX-R 2-Way Surround Speaker
Bass-reflex design with 5½-in injection-molded polypropylene with butyl surrounds and two ¾-in metal-dome cloth-suspension tweeter. Molded baffle; multilevel bracing. 5-way gold-plated terminals. Power handling 100 W; crossover point 2 kHz; FR 55 Hz-22 kHz; sens 89 dB; imp 8 ohms. 5-yr warranty. 13 x 7 x 5 in $350/pr
FRX-1. As above, bookshelf version. One ¾-in metal-dome cloth-suspension tweeter. Sens 88 dB. 7 x 13 x 9 in $250/pr
FRX-C. As above, center-channel version. Two 4½-in injection-molded polypropylene woofers with butyl surrounds. FR 58 Hz-22 kHz; sens 89 dB. 17 x 6 x 11 in $250

MBS 2-Way Bipolar Surround Speaker
Bipolar 3rd-order sealed design with two 4½-in injection-molded polypropylene woofers and two ½-in ferrofluid-cooled vapor-deposited titanium-dome tweeters. Magnetic shielding. Compatible with Mirage powered subs. Power handling 100 W rms; FR 120 Hz-20 kHz; sens 88 dB; imp 8 ohms. High-gloss black or white. 11 x 7 x 5 in; 7 lb $350/pr

OM-C2 2-Way Center-Channel Speaker
Bass-reflex design with two 5½-in injection-molded polypropylene woofers with copolymer baskets and butyl surrounds, and two 1-in tweeters. MDF construction; multilevel bracing. 5-way gold-plated terminals. Power handling 175 W; FR 40 Hz-23 kHz; sens 90 dB; imp 6 ohms. Black finish. 5-yr warranty. 21 x 7 x 11 in; 24 lb $350
OM-C3 2-Way. As above, two 5½-in woofers with injection-molded copolymer baskets and butyl surrounds $350

Oasis 2-Way Outdoor Speaker
Acoustic-suspension design with 5¼-in injection-molded woofer with rubber surround and ½-in flared-dome ferrofluid-cooled tweeter. Injection-molded water-resistant enclosure. Gold-plated terminals. Power handling 100 W rms; FR 65 Hz-20 kHz; sens 88 dB; imp 8 ohms. Black or white finish $300/pr

AVS-200 2-Way Speaker
Acoustic-suspension design with 3½-in polypropylene woofer and 1-in dome tweeter. MDF construction. One pair of 5-way gold-plated terminals. Power handling 100 W; crossover point 2.2 kHz; FR 90 Hz-20 kHz; sens 89 dB; imp 8 ohms. Black or white. 5-yr warranty. 4 x 7 x 5 in; 15 lb $180
AVS-100 2-Way Center-Channel Speaker. As above, two 3½-in polypropylene woofers. 11 x 4 x 5 in; 3 lb $150

BPS Powered Subwoofers
BPSS-210 Bipolar Powered Subwoofer
Bipolar acoustic-suspension design with two 10-

in drivers; amp rated at 250 W. Dual chambers; dual push-pull surround; Class A/B amp with servo-control. FR 18-100 Hz ±3 dB. 24 x 18 x 18 in; 98 lb $1,700

BPS-400 Bipolar Powered Subwoofer
Bipolar acoustic-suspension design with two 12-in drivers; amp rated at 400 W. Protection circuitry. Line-level inputs. Level control; adjustable low-pass filter. FR 16-100 Hz. Gloss black finish $1,300

BPS-150i Bipolar Powered Subwoofer
Bipolar bass-reflex design with two 8-in drivers; amp rated at 150 W. Protection circuitry. Line- and speaker-level inputs and outputs. Level control; adjustable low-pass filter; 0-180° phase control; A/V EQ switch. FR 23-150 Hz. High-gloss black finish $800
PS-12i. As above, one 12-in front-firing vented driver. FR 22-150 Hz $600
PS-10i. As above, 100-W amp and one 10-in driver. FR 28-150 Hz $400
PS-8i. As above, one 8-in driver. FR 29-100 Hz. 16 x 10 x 11 in $300

Architectural Series
The following include a white mounting kit and have a 3-in mounting depth.

MIDS-6.5 2-Way In-Wall Speaker
6½-in polypropylene woofer and 1-in titanium-dome tweeter. Power handling 100 W; FR 45 Hz-22 kHz ±3 dB; sens 87 dB; imp 8 ohms. Rectangular frame. Mounting area: 9 x 13 in $400/pr

MIDS-5.25R 2-Way In-Wall Speaker
5¼-in polypropylene woofer and ½-in polycarbonate tweeter. Power handling 80 W; FR 60 Hz-20 kHz ±3 dB; sens 86 dB; imp 8 ohms. Round frame. Mounting diameter: 8 in $250/pr

MISSION

Model 775 2-Way Speaker
Bass-reflex design with two 6½-in Aerogel-membrane woofers, one 1-in ferrofluid-cooled viscous-laminated fabric-dome tweeter. 1st- and 2nd-order crossovers; profiled 1½-in MDF front baffle; leaf-sprung tweeter mounting; ¾-in thick cabinet. Biampable terminals. Phase-control correction plug. Power handling 25-175 W; crossover point 3 kHz; FR 38 Hz-20 kHz ±3 dB; sens 92 dB; imp 8 ohms. Rosewood, cherry, or graphite-black wood veneer. 5-yr parts-and-labor warranty. 9 x 43 x 12 in $2,000/pr

Model 705 Active 3-Way Speaker
Bass-reflex design with two 8-in glass-fiber composite-cone woofers, one 6¾-in glass-fiber composite-cone midrange, and one 1-in ferrofluid-cooled soft-dome tweeter. ¾-in high-density cabinet; profiled MDF baffle; anti-turbulence port tube; isolated midrange enclosure; second-order active-internal low-pass filter. Biampable terminals; line-level input jacks. Input-level control; phase-control correction plug. Power handling 25-250 W; crossover points 120 Hz and 4 kHz; FR 30 Hz-20 kHz ±3 dB; sens 89 dB; imp 8 ohms. Black-ash veneer finish. 5-yr parts-and-labor warranty. 10 x 52 x 17 in $1,750/pr

Model 705 3-Way Speaker
Bass-reflex design with two 8-in profiled glass-composite cone woofer, one 6½-in profiled glass-composite cone midrange in damped enclosure, and one 1-in ferrofluid-cooled soft-dome tweeter. 3-way active/passive crossover; MDF enclosure. Biampable multiway binding posts. Auto on/off switch. Power handling 250 W; crossover points 120 Hz and 4 kHz; FR 30 Hz-20 kHz ±3 dB; sens 89 dB; imp 8 ohms. Black ash. 10 x 52 x 17 in $1,250/pr

Model 774 2-Way Speaker
Bass-reflex design with two 5¼-in Aerogel woofers and one 1-in ferrofluid-cooled viscous-laminated fabric-dome tweeter. 1st- and 2nd-order crossover; profiled 1½-in MDF front baffle; leaf-sprung tweeter mounting; ¾-in thick cabinet. Biampable terminals. Phase-control correction plug. Power handling 25-150 W; crossover point 3 kHz; FR 45 Hz-20 kHz ±3 dB; sens 90 dB; imp 8 ohms. Rosewood, cherry, or graphite-black wood veneer. 5-yr parts-and-labor warranty. 7¼ x 36½ x 12½ in $1,200/pr

Model 77AS2 Powered Subwoofer
Infinite-baffle design with two 8-in multifiber-pulp-cone drivers; 100-W amp. ¾-in high density cabinet with profiled MDF baffle. Line-level inputs; binding posts. Crossover point variable from 40-180 Hz; FR 35-200 Hz ±3 dB. Rosewood, cherry, or graphite-black wood veneer. 5-yr parts-and-labor warranty. 18 x 20 x 18 in $1,000

Model 704 3-Way Speaker
Bass-reflex design with 8-in profiled glass-composite cone woofer, 6½-in profiled glass-composite cone midrange, and 1-in ferrofluid-cooled soft-dome tweeter. Sealed midrange enclosure; anti-turbulence port tube; MDF enclosure. Biampable multiway binding posts. Power handling 250 W; crossover points 120 Hz and 4 kHz; FR 35 Hz-20 kHz ±3 dB; sens 89 dB; imp 8 ohms. Black ash. 10 x 42 x 17 in $875/pr

Model 773 2-Way Bookshelf Speaker
Bass-reflex design with 5¼-in Aerogel woofer and 1-in ferrofluid-cooled viscous-laminated fabric-dome tweeter. Inverted Driver Geometry woofer/tweeter configuration; 1st- and 2nd-order crossover; profiled 1½-in MDF front baffle; ⅝-in thick cabinet. Biampable terminals. Phase-control correction plug. Power handling 25-100 W; crossover point 3 kHz; FR 50 Hz-20 kHz ±3 dB; sens 87 dB; imp 8 ohms. Rosewood, cherry, or graphite-black wood veneer. 5-yr parts-and-labor warranty. 6¾ x 33½ x 10½ in $800/pr
Model 772. As above, leaf-sprung tweeter mounting; no phase-control correction plug. FR 60 Hz-20 kHz ±3 dB. 6¾ x 16¾ x 10½ in $600/pr
Model 771. As above, biampable terminals with shorting bars. Phase-control correction plug. FR 75 Hz-20 kHz ±3 dB. 6¾ x 12¼ x 9¼ in ... $400/pr

AS 2 Powered Subwoofer
Reflex-loaded design with 12-in driver; 150-W amp. Variable low-pass filter; MDF enclosure. Line- and speaker-level inputs. Level control. Crossover point adjustable from 48-180 Hz; FR 20-250 Hz ±6 dB. Black ash finish $699
AS 1. As above, 10-in driver; 100-W amp $499

Model 77c2 2-Way Center-Channel Speaker
One magnetically-shielded 6½-in Aerogel woofer, one 6½-in Aerogel passive radiator, and three 1-in ferrofluid-cooled viscous-laminated fabric-dome tweeters in vertical array with magnetic shielding. 1st- and 2nd-order crossover; profiled 1½-in MDF front baffle; ⅝-in thick cabinet. Binding posts. Power handling 25-100 W; FR 60 Hz-20 kHz ±3 dB; sens 88 dB; imp 8 ohms. Rosewood, cherry, or graphite-black wood veneer. 5-yr parts-and-labor warranty. 18 x 8 x 9 in $600
Model 77c1. As above, one magnetically-shielded 5¼-in Aerogel woofer, one 5¼ Aerogel passive radiator. Phase-control correction plug. Power handling 20-100 W; FR 75 Hz-20 kHz ±3 dB; sens 87 dB; imp 8 ohms. 16¾ x 6¾ x 7¾ in $350

The Glossary on page 243 will help you tell hertz (Hz) from decibels (dB) and MiniDiscs (MD) from megabytes (MB).

Model 77s2 2-Way In-Wall Dipolar Surround Speaker
Bass-reflex design with two 5¼-in Aerogel woofers, two 1-in viscous-laminated fabric-dome tweeters. Injection-molded polymer cabinet. Binding posts. Power handling 25-100 W; crossover point 3 kHz; FR 80 Hz-20 kHz ±3 dB; sens 87 dB; imp 8 ohms. 5-yr parts-and-labor warranty. 14 x 10 x 5 in $600/pr
Model 77s1. As above, two 4-in graphite composite woofers $350/pr

Model 703 2-Way Speaker
Bass-reflex design with 8-in profiled glass-composite cone woofer and 1-in ferrofluid-cooled soft-dome tweeter. Antiturbulence port tube; MDF enclosure. Biampable multiway binding posts. Power handling 150 W; crossover points 90 Hz and 4 kHz; FR 40 Hz-20 kHz ±3 dB; sens 90 dB; imp 8 ohms. Black ash. 10 x 38 x 15 in $599/pr
Model 702. As above, bookshelf version. Crossover point 4 kHz; FR 45 Hz-20 kHz ±3 dB. 10 x 21 x 15 in $500/pr
Model 701. As above, 6½-in glass-composite-cone woofer. Power handling 100 W; FR 50 Hz-20 kHz ±3 dB; sens 89 dB. 9 x 18 x 12 in $375/pr
Model 700. As above, 5¼-in woofer. Power handling 75 W; FR 60 Hz-20 kHz ±3 dB; sens 87 dB. 7½ x 14 x 10½ in $250/pr

Model 70AS Powered Subwoofer
Bass-reflex design with 10-in multifiber-pulp-cone driver; 100-W amp. Anti-turbulence port tube; ¾-in high density cabinet with profiled MDF baffle. Binding posts; line-level input jacks. Crossover point variable from 40-180 Hz; FR 40-200 Hz ±3 dB. Black-ash veneer finish. 5-yr parts-and-labor warranty. 16 x 18 x 15 in $500

Model 750 Limited Edition 2-Way Bookshelf Speaker
Reflex-loaded design with 5¼-in woofer and 1-in ferrofluid-cooled fabric-dome tweeter with neodymium magnet. Biampable gold-plated binding posts. Power handling 30-100 W; crossover point 3 kHz; FR 70 Hz-20 kHz ±3 dB; sens 86 dB. Rosewood finish. 6½ x 11 x 10½ in $500/pr

Model 73 2-Way Speaker
Bass-reflex design with 4¼-in Plastiflex woofer and ½-in polycarbonate-dome tweeter with ferrofluid-cooling. Inverted Drive Geometry woofer/tweeter configuration; magnetic shielding; simple-slope crossover; hexagonal cabinet styling. Stand or wall mount. Mounting brackets optional. Power handling 20-50 W; crossover point 3.5 kHz; FR 70 Hz-20 kHz ±3 dB; sens 90 dB; imp 8 ohms. Black or white finish. 5-yr parts-and-labor warranty. 6 x 10¼ x 6 in $250/pr

Model 731i 2-Way Bookshelf Speaker
Reflex-loaded design with 5¼-in treated-paper-cone woofers and 1-in ferrofluid-cooled silk-dome tweeter. Isolated injection-molded mica-loaded polypropylene baffles; Inverted Driver Geometry woofer/tweeter configuration; high-density particleboard-wrap enclosure; polyester-fiber damping. Single-wire binding posts. Power handling 75 W; crossover point 3.1 kHz; FR 75 Hz-20 kHz ±2.5 dB; sens 89 dB; imp 8 ohms. Black ash finish. 12½ x 7 x 8 in $249/pr

MITSUBISHI

M-FS10 3-Way Speaker
Bass-reflex design with 10-in polymer woofer, 5¼-in polymer midrange, and 1-in soft-dome tweeter. Magnetic shielding. One-touch terminals with banana plug capability. Power handling 150 W max; FR 35 Hz-20 kHz; sens 92 dB; imp 8 ohms. Black Diamond gray with removable grille. 5-yr parts-and-labor warranty. 12⅛ x 38¾ x 12⅜ in; 55 lb $899

M-FS8 2-Way Speaker
Bass-reflex design with 8-in polymer woofer and 1-in polycarbonate-dome tweeter. Magnetic shield-

ing. Power handling 120 W; FR 40 Hz-20 kHz; sens 90 dB; imp 8 ohms. Black Diamond gray. 10 x 36⅝ x 13⅜ in; 50 lb $699/pr

M-DS616 2-Way Bookshelf Speaker
Bass-reflex design with 6½-in polymer woofer and 1-in soft-dome tweeter. Magnetic shielding. One-touch terminals with banana plug capability. Power handling 150 W max; FR 45 Hz-20 kHz; sens 91 dB; imp 8 ohms. Black Diamond gray with removable grille. 5-yr parts-and-labor warranty. 8¼ x 20 x 12⅜ in; 24 lb $599/pr

M-SUB12 Powered Subwoofer
Bass-reflex design with 12-in polymer driver; 120-W amp. Level control; auto standby. Crossover point variable from 50-200 Hz; FR 28-200 Hz. Black Diamond gray. 15½ x 17¼ x 20½ in; 50 lb $599

M-SUB10 Powered Subwoofer
10-in polymer driver; 60-W amp. Level control; auto standby. Crossover point variable from 50-200 Hz; FR 38-200 Hz. 15½ x 14 x 15½ in; 35 lb ..$449

M-CTR6 2-Way Bookshelf Speaker
Bass-reflex design with two 6½-in polymer woofers and one 1-in soft-dome tweeter. Magnetic shielding; horizontal array for improved sound dispersion. One-touch terminals with banana plug capability. Power handling 150 W max; FR 45 Hz-20 kHz; sens 91 dB; imp 8 ohms. Black Diamond gray. 5-yr parts-and-labor warranty. 20 x 8¼ x 12⅜ in; 24 lb $399

M-SS6 2-Way Bookshelf Speaker
Bass-reflex design with 6½-in polymer woofer and ¼-in polycarbonate-dome tweeter. Magnetic shielding. Power handling 80 W; FR 50 Hz-20 kHz; sens 89 dB; imp 8 ohms. Black Diamond gray. 8 x 15½ x 9 in; 15 lb $399/pr

M-CTR5 2-Way Center-Channel Speaker
Horizontal array with two 5¼-in polymer woofers and one ¾-in polycarbonate-dome tweeter. Magnetic shielding. Power handling 100 W; FR 80 Hz-20 kHz; sens 90 dB; imp 8 ohms. Black Diamond gray. 20 x 6¼ x 8¼ in; 23 lb $299

M-SS5 2-Way Surround Speaker
5¼-in polymer woofer and ¾-in polycarbonate-dome tweeter. Power handling 60 W; FR 80 Hz-20 kHz; sens 87 dB; imp 8 ohms. Black Diamond gray. 6½ x 9¼ x 6¼ in; 9 lb $299/pr

MONITOR AUDIO

ASW 210 Powered Subwoofer
Differentially-tuned dual 10-in gold ceralloy drivers; amp rated at 200 W. MDF cabinet. 0-180° phase control; A/V switch; volume control. Crossover point continuously variable from 24-140 Hz ±3 dB. Black satin. 15 x 22¼ x 17¼ in $999

ASW 110 Powered Subwoofer
10-in gold ceralloy driver; amp rated at 150 W. MDF cabinet. 0-180° phase control; A/V switch; volume control. Crossover point continuously variable from 30-140 Hz ±3 dB. Black satin. 14 x 14 x 15 in $599

Studio Series
Studio 60 3-Way Speaker
Bass-reflex design with two 6½-in ceralloy woofers, 6¼-in midrange, and 1-in gold-alloy dome tweeter with ¼-in thick metal housing. Differentially-tuned driver subenclosures; dual-veneered MDF cabinet. Power handling 300 W; FR 26 Hz-28 kHz ±3 dB; sens 90 dB; imp 8 ohms. Black oak finish. 44 x 8 x 12 in $9,995
Piano black $11,995
Rosewood $10,995

Studio 50 3-Way Speaker
Acoustic-suspension design with two 6¼-in ceralloy-cone woofers, one 6¼-in midrange, and one 1-in anodized-gold dome tweeter. Dual-veneered MDF cabinet. Power handling 250 W; FR 25 Hz-30 kHz ±3 dB; sens 89 dB; imp 8 ohms. Black oak finish. 8 x 42 x 12 in $5,999/pr
Piano-black or piano-rosewood finish ...$7,595/pr
Rosewood finish $6,595/pr

Studio 20se 2-Way Speaker
Bass-reflex design with 6¼-in ceralloy-cone woofer and 1-in anodized-gold dome tweeter. Dual-veneered MDF cabinet; mass-loadable. Power handling 20-200 W; FR 33 Hz-30 kHz ±3 dB; sens 89 dB; imp 8 ohms. Black oak finish. 8 x 36 x 10 in $3,499/pr
Piano-black finish $5,399/pr
Rosewood finish $4,499/pr

Studio 6 2-Way Speaker
Bass-reflex design with 6¼-in ceralloy-cone woofer and 1-in anodized-gold dome tweeter. MDF cabinet. Power handling 20 W min, 200 W max; FR 40 Hz-30 kHz ±3 dB; sens 88 dB; imp 8 ohms. Black oak finish. 9 x 14 x 10 in $1,799/pr
Piano-rosewood or piano-black finish ..$2,399/pr
Rosewood finish $1,899/pr

Studio Center 2-Way Center-Channel Speaker
Bass-reflex design with two 6½-in ceralloy-cone woofer and one 1-in anodized-gold dome tweeter with ¼-in thick-metal housing. Power handling 200 W; FR 38 Hz-30 kHz ±3 dB; sens 89 dB; imp 6 ohms. Black oak. 20½ x 6½ x 8 in $1,499
Piano finish $1,899
Rosewood $1,599

Studio 2se 2-Way Speaker
Bass-reflex design with 4½-in ceralloy-cone woofer and 1-in anodized-gold dome tweeter. MDF cabinet. FR 60 Hz-30 kHz ±3 dB; sens 87 dB; imp 8 ohms. Black or light oak finish. 7 x 11 x 8 in $1,099/pr
Piano-rosewood or piano-black finish ..$1,599/pr
Rosewood finish $1,399/pr

Full Metal Theater Series
Model 705PMC 2-Way Speaker
Acoustic-suspension design with two 6¼-in ceralloy-cone woofers and one 1-in anodized-gold dome tweeter. Power handling 300 W; FR 28 Hz-30 kHz ±3 dB; sens 90 dB; imp 6 ohms. Black oak veneer. 8 x 36½ x 10½ in $2,299/pr
Rose Mahogany $2,399/pr

Model 703PMC 2-Way Speaker
Bass-reflex design with 61/4-in ceralloy-cone woofer and 1-in anodized-gold dome tweeter. Dual-veneered MDF cabinet; mass loadable. Power handling 200 W; FR 30 Hz-30 kHz ±3 dB; sens 90 dB; imp 8 ohms. Black oak finish. 8 x 341/2 x 10½ in $1,799/pr
Rose Mahogany finish $1,899/pr

Model 702PMC 2-Way Speaker
Bass-reflex design with 6¼-in ceralloy-cone woofer and 1-in anodized-gold dome tweeter. Dual-veneered MDF cabinet. Power handling 200 W; FR 33 Hz-30 kHz ±3 dB; sens 89 dB; imp 8 ohms. Black oak finish. 8 x 16 x 9½ in $1,299/pr
Rose finish $1,399/pr

CC70 2-Way Center-Channel Speaker
Bass-reflex design with two 6½-in ceralloy-cone woofer and one 1-in anodized-gold dome tweeter. MDF cabinet. Power handling 200 W; FR 40 Hz-30 kHz ±3 dB; sens 89 dB; imp 6 ohms. Black satin. 22 x 8¼ x 8 in $999

Model 700PMC 2-Way Speaker
Bass-reflex design with 6¼-in ceralloy-cone woofer and 1-in anodized-gold dome tweeter. MDF cabinet. Power handling 200 W; FR 35 Hz-30 kHz ±3 dB; sens 89 dB; imp 8 ohms. Black oak. 9 x 14 x 9½ in $999/pr
Rose mahogany $1,099/pr

CC700 2-Way Center-Channel Speaker
Bass-reflex design with two 5¼-in ceralloy-cone woofer and one 1-in anodized-gold dome tweeter. MDF cabinet. Power handling 200 W; FR 45 Hz-30 kHz ±3 dB; sens 89 dB; imp 6 ohms. Black satin finish. 20½ x 6½ x 8 in $799

Rear Effects
MAFX-2 2-Way Bipolar/Dipolar Speaker
Two 5¼-in bipolar aluminum-magnesium woofers and two ¾-in dipolar aluminum-magnesium tweeters. Power handling 150 W; FR 50 Hz-22 kHz; sens 89 dB; imp 6 ohms. Black or white vinyl finish. 10½ x 9½ x 7¾ in $1,199
MAFX-1. As above with cobex woofers $799

Custom Metal Theater Series
Monitor-3 2-Way Speaker
Acoustic-suspension design with two 5¼-in cobex woofers and one ¾-in anodized-gold dome tweeter. Magnetic shielding; mass loadable. Power handling 200 W max; FR 40-22 kHz ±3 dB; sens 90 dB W/m; imp 6 ohms. Black oak or rose mahogany veneer finish. 6½ x 34½ x 8 in $999/pr

Monitor-2.5 2-Way Bookshelf Speaker
5¼-in cobex woofer and ¾-in anodized-gold dome tweeter. Magnetic shielding. Biampable terminals. Power handling 200 W max; FR 50 Hz-24 kHz ±3 dB; sens 88 dB W/m; imp 8 ohms. Black oak or rose mahogany veneer finish. 6½ x 12½ x 8 in $699/pr

CC300 2-Way Center-Channel Speaker
Bass-reflex design with two 5¼-in cobex woofers and one ¾-in anodized-gold tweeter. MDF cabinet. Power handling 200 W max; FR 40 Hz-24 kHz dB; sens 89 dB; imp 6 ohms. Black satin finish. 20½ x 6½ x 8 in $499

MA301 2-Way Bookshelf Speaker
5¼-in cobex woofer and ¾-in anodized-gold dome tweeter. MDF cabinet; magnetic shielding. Biampable terminals. Power handling 100 W; FR 55 Hz-24 kHz ±3 dB; sens 88 dB W/m; imp 8 ohms. Black satin finish. 6½ x 10½ x 8 in $499/pr

In-Wall Series
IW PMC 2-Way In-Wall Speaker
6½ ceralloy woofer and 1-in ceralloy-dome pivoting tweeter. Built-in EQ with ±6-dB boost/cut. Power handling 200 W max; FR 45 Hz-28 kHz ±3 dB; sens 88 dB W/m; imp 8 ohms $899/pr

IW 2.5 2-Way In-Wall Speaker
6½ cobex woofer and ¾-in ceralloy-dome pivoting tweeter. Built-in EQ with ±6-dB boost/cut. Power handling 150 W max; FR 45 Hz-24 kHz ±3 dB; sens 89 dB W/m; imp 8 ohms $499/pr

Round two it 2-Way In-Wall Speaker
Coaxial design with 6½-in cobex woofer and ¾-in gold-dome tweeter. Power handling 150 W max; FR 50 Hz-24 kHz ±3 dB; sens 88 dB W/m; imp 8 ohms $399/pr

MONSTER SOUND

InvisiSound IS-8000 2-Way Speaker
8-in woofer and 1-in dome tweeter. Over-drive protection circuitry. 5-way binding posts. Adjustable high-frequency control. Includes retrofit mounting hardware. Power handling 120 W; FR 48 Hz-20 kHz; imp 8 ohms. 5-yr warranty. 8⅞ x 12⅜ x 3½ in $400/pr
InvisiSound IS-6500 2-Way In-Wall Speaker. As above, 6½-in woofer. Power handling 100 W; FR 60 Hz-20 kHz. 7⅜ x 10⅜ x 3½ in $300/pr
InvisiSound IS-5250R. As above, 5¼-in woofer. Power handling 80 W; FR 70 Hz-20 kHz. 6¾ x 9⅜ x 3½ in $125

MOREL

The following carry a 5-year warranty. Stands are available in 9- and 20-inch heights.

MLP-501 3-Way Speaker
8½-in woofer, 2-in soft-dome midrange, and 1⅛-in

ferrofluid-cooled soft-dome tweeter. Sealed cabinet system; low-distortion midrange. Copper binding posts. Includes spikes. Power handling 180 W rms; FR 36 Hz-22 kHz ±3 dB; sens 90 dB; imp 8 ohms. 10¼ x 33 x 12 in; 42 lb $999/pr

Duet 2-Way Bookshelf Speaker
6-in woofer and 1⅛-in ferrofluid-cooled soft-dome tweeter. Power handling 150 W rms; FR 40 Hz-22 kHz ±2 dB; sens 89 dB; imp 8 ohms. Black finish. 8 x 15 x 12 in; 26 lb $995/pr

MLP-403.5 3-Way Bookshelf Speaker
9-in woofer, 3-in soft-dome midrange, and 1-in ferrofluid-cooled soft-dome tweeter. Proprietary voice-coil wiring. Copper binding posts. Power handling 150 W rms; FR 38 Hz-25 kHz ±3 dB; sens 90 dB; imp 8 ohms. Walnut, teak, or black wood veneer. 12 x 21¼ x 10¼ in; 27 lb $845/pr

Encore Subwoofer/Satellite System
3-speaker system featuring subwoofer with two 9-in drivers in push-pull configuration; 2 satellites, each with 6-in cone woofer and 1⅛-in ferrofluid-cooled soft-dome tweeter in separate enclosures. Crossover with high and low pass filters. Power handling 150 W rms sub, 120 W rms sat; crossover point 90 Hz; FR 30 Hz-22 kHz ±3 dB system; sens 91 dB; imp 4 ohms. Subwoofer: 20 x 11 x 14 in. Satellite: 7 x 11 x 6 in $829

MLP-202.2 2-Way Bookshelf Speaker
6-in long-throw woofer and 1⅛-in ferrofluid-cooled soft-dome tweeter. Copper binding posts. Power handling 150 W; FR 58 Hz-28 kHz ±3 dB; sens 88 dB; imp 4 ohms. 8 x 13 x 10 in; 17 lb $545/pr

MLP-201.2 2-Way Bookshelf Speaker
9-in woofer and 1⅛-in ferrofluid-cooled soft-dome tweeter. Power handling 100 W rms; FR 48 Hz-25 kHz ±3 dB; sens 89 dB; imp 8 ohms. Red walnut or black wood veneer. 10 x 16 x 10 in; 19 lb ...$450/pr

MLP-201.3 2-Way Bookshelf Speaker
6-in woofer and 1⅛-in ferrofluid-cooled soft-dome tweeter. Power handling 120 W rms; FR 40 Hz-20 kHz; sens 90 dB; imp 6 ohms. 8½ x 13 x 10 in $350/pr

MTX

PS15 Powered Subwoofer
Acoustic-suspension design with 15-in down-firing driver; 200-W amp. Magnetic shielding; 24-dB/oct crossover slope. Line- and speaker-level inputs; 6-dB/oct high-pass speaker-level output; 12-dB/oct line-level output. Dynamic throw control; electronic EQ controls; auto on; infrared remote control. Crossover point continuously variable from 50-150 Hz. 17 x 17¼ x 19½ in $599

PS12 Powered Subwoofer
Bass-reflex design with 12-in down-firing driver; 100-W amp. Magnetic shielding; 12-dB/oct crossover slope. Line- and speaker-level inputs; 6-dB/oct high-pass output. Electronic EQ controls; auto on; infrared remote control. Crossover point continuously variable from 40-150 Hz. 16 x 16½ x 18 in $449
PS10. As above, 10-in driver. 15 x 15½ x 17 in .$399

AAL Series
AAL2230 3-Way Speaker
Two 12-in treated-fiber woofers, one 5-in ferrofluid-cooled sealed-cone midrange, and one 2 x 5-in quartz-horn tweeter. Power handling 300 W rms; FR 38 Hz-22 kHz; sens 93 dB; imp 4 ohms. 16 x 39⅝ x 14⅝ in $360

AAL1540 4-Way Speaker
15-in treated-fiber woofer, 5- and 3-in ferrofluid-cooled sealed-cone midranges, and 2 x 5-in quartz-horn tweeter. Power handling 125 W rms; FR 40 Hz-22 kHz; sens 92 dB; imp 4 ohms. Oak or black finish. 18½ x 29 x 14½ in $290
AAL1240. As above, 12-in woofer. Power handling 100 W rms; FR 50 Hz-22 kHz. 15½ x 27 x 10¼ in $230

AAL620S 2-Way Bookshelf Speaker
6½-in treated-fiber woofer and ½-in polycarbonate-dome tweeter. Magnetic shielding. Power handling 40 W rms; FR 90 Hz-20 kHz; sens 88 dB; imp 8 ohms. Oak or black finish. 9⅜ x 12⅞ x 7 in ..$200/pr
AAL600. As above, no magnetic shielding ...$170/pr

AAL1030 3-Way Speaker
10-in treated-fiber woofer, 5-in ferrofluid-cooled sealed-cone midrange, and 2 x 5-in quartz-horn tweeter. Power handling 75 W rms; FR 55 Hz-22 kHz; sens 92 dB; imp 4 ohms. Oak or black finish. 15 x 24 x 10 in $190
AAL830. As above, 8-in woofer. Power handling 50 W rms; FR 75 Hz-22 kHz; sens 91 dB. 11¼ x 18½ x 8 in $260/pr

AAL525SB 2-Way Center-Channel Speaker
Two 5¼-in treated-fiber woofers and one ½-in polycarbonate-dome tweeter. Magnetic shielding. Power handling 50 W rms; FR 100 Hz-20 kHz; imp 8 ohms. 16 x 7⅞ x 7⅞ in $150/pr

Blueprint Series
Model 820 2-Way In-Wall Speaker
8-in polypropylene woofer and 1-in soft-dome tweeter. Power handling 50 W rms; FR 40 Hz-22 kHz; sens 90 dB; impedance 8 ohms. 10 x 14 x 3⅝ in $300/pr
Model 620. As above, 6½-in polypropylene woofer. Power handling 45 W rms; FR 45 Hz-22 kHz. 8⅝ x 12 x 3 in $250/pr
Model 520. As above, 5¼-in woofer. Power handling 40 W rms; FR 50 Hz-22 kHz; sens 89 dB. 7½ x 11 x 2⅝ in $200/pr

FS10A In-Floor Subwoofer
10-in treated-fiber dual-voice-coil drivers. Designed to fit between 16 inch-on-center floor joists. Power handling 100 W; FR 48-100 Hz; sens 92 dB; imp 8 ohms. 14½ x 8¾ x 27½ in $280
FS8A. As above, 8-in woofer. Fits between 12-in joist space. Power handling 75 W; FR 52-100 Hz; sens 90 dB. 10½ x 8¾ x 27½ in $240

WR5B/W 2-Way Outdoor Speaker
5¼-in woofer and 3¾-in balanced-dome tweeter. Butyl-rubber surround; aluminum grille. Includes ball-and-swivel mounting brackets. Power handling 35 W rms; FR 92 Hz-20 kHz $249/pr

Model 650WR 2-Way Outdoor In-Wall Speaker
Coaxial design with 6½-in polypropylene woofer and polycarbonate-dome tweeter. Water-resistant enclosure; aluminum mesh grille; stainless-steel hardware; encapsulated magnet. Power handling 35 W rms; FR 60 Hz-20 kHz; sens 89 dB; imp 8 ohms. 8⅜ x 8⅜ x 2¾ in $180/pr

Model 600 2-Way In-Wall Speaker
Coaxial design with 6½-in polypropylene woofer and polycarbonate-dome tweeter. Power handling 35 W rms; FR 63 Hz-20 kHz; sens 88 dB; imp 8 ohms. 8¾ x 8¾ x 2¾ in $150/pr
Model 610RCM. Ceiling version of above with round frame $190/pr
Model 810RCM. As above, 8-in woofer. Power handling 45 W; FR 40 Hz-20 kHz $250/pr

Model 500 2-Way In-Wall Speaker
Coaxial design with 5¼-in polypropylene woofer and ½-in polycarbonate-dome tweeter. Power handling 30 W rms; crossover point 8 kHz; FR 69 Hz-20 kHz; sens 88 dB; imp 8 ohms. 7⅛ x 7⅛ x 2⅛ in $120/pr

Model 510RCM 2-Way Ceiling Speaker
5¼-in polypropylene woofer and 1-in polycarbonate-dome tweeter. Reversible grille convertible from standard to flush. Power handling 30 W rms; FR 69 Hz-20 kHz; sens 88 dB; imp 8 ohms. Square frame. Mounting area: 7⅛ x 7⅛ in. Mounting depth 2⅛ in $120/pr

Model 622RCM 2-Way Ceiling Speaker
6½-in dual-voice-coil polypropylene woofer and two polycarbonate-dome tweeters. Butyl rubber surround; aluminum grille; stainless-steel hardware. Power handling 35 W rms; FR 63 Hz-20 kHz; sens 88 dB; imp 8 ohms $110

Model MP42B 2-Way Speaker
Two 4-in polypropylene woofers and one ½-in balanced-dome tweeter. Weather-resistant enclosure; magnetic shielding. Can be shelf-, stand-, or wall-mounted. Includes wall-mounting bracket. Power handling 50 W rms; FR 110 Hz-20 kHz; imp 8 ohms. 4⅞ x 12⅝ x 5 in $110

MUSE

Eighteen Powered Subwoofer
6th-ordered bass-reflex design with two 10-in drivers; 225-W amp. Biamplified. Personality cards capability. Personality cards, balanced amp circuits optional. Oak (black, clear, or medium), walnut (clear or red), or clear cherry. 3-yr warranty. 25 x 25 x 25 in; 155 lb $3,450
As above, walnut or cherry $3,700

Twenty Two Powered Subwoofer
6th-order bass-reflex design with 12-in driver; 100-W amp. Level and frequency controls. Black oak. 3-yr warranty. 20 x 20 x 22 in; 85 lb $1,650
As above, medium oak $1,750

NAIM

NA-DBL 3-Way Speaker
Decoupled-box design with 15-in woofer, 5-in infinite-baffle midrange, and ¾-in soft-dome tweeter. Computer-calculated damping systems. Power handling 200 W; FR 17 Hz-20 kHz ±3 dB; sens 92 dB; imp 4 ohms. Black ash, ebony, cherry, or beech finish. 16 x 47 x 26 in; 200 lb ...$16,750/pr
Passive crossover $300/pr

NA-SBL 2-Way Speaker
8-in woofer and ¾-in dome tweeter. External detachable crossover; decoupled tweeter. Includes stand. Power handling 75 W max; FR 30 Hz-20 kHz ±3 dB; sens 88 dB; imp 6 ohms. Black ash, beech, cherry, or walnut finish. 10⅜ x 34½ x 10½ in $3,900/pr

Credo 2-Way Speaker
Decoupled-box design with 8-in woofer and ¾-in dome tweeter. Power handling 90 W; FR 35 Hz-20 kHz ±3 dB; sens 89 dB; imp 6 ohms. Rosewood finish. 10½ x 34½ x 9½ in $2,950/pr
Ebony, cherry, or beech finish $2,600/pr
As above, power handling 75 W; simulated black-woodgrain finish $1,600/pr

NCT AUDIO

Gekko Flat-Panel Home Theater System
6-piece flat-panel speaker system featuring powered servo-controlled subwoofer with 10-in driver and 100-W amp; 5 satellite speakers, each with 5¼-in woofer and flat-panel transducer. Piezo-driven flat panel gives omnidirectional response at all its reproduced frequencies. Line- and speaker-level inputs and outputs on subwoofer. Subwoofer level and frequency control; shallow design allows speakers to be hung on a wall creating an infinite baffle. Includes mounting bracket for satellites. Printed grilles, decorative picture frames, larger grilles optional. Power handling 50 W; crossover point selectable at 100 Hz and 2.5 kHz; FR 30-150 Hz subwoofer, 100Hz-15 kHz satellite; sens 86 dB; imp 4 ohms. Black. 5-yr warranty. Subwoofer: 11½ x 11½ x 11½ in. Satellite: 11½ x 14½ x 2 in $2,000

GK-1114 2-Way Flat-Panel Speaker
Acoustic-suspension design with 5¼-in woofer and flat-panel transducer. Designed to hung as painting. Piezo-electrically-driven flat panel allows omnidirectional response at all its reproduced frequencies. Includes wall-mounting brackets. Print-

ed grilles, decorative picture frames, larger grilles optional. Power handling 50 W; crossover point 2.5 kHz; FR 100 Hz-15 kHz; sens 86 dB; imp 4 ohms. Black. 5-yr warranty. 11½ x 14½ x 2 in; 6 lb $299

GK-CC10 2-Way Center-Channel Speaker
Tuned-port design with two 4-in polypropylene-cone woofers with rubber surround and one ½-in ferrofluid-cooled damped polycarbonate-hyperdome tweeter. Magnetic shielding. Power handling 75 W max; crossover point 2.3 kHz; FR 75 Hz-20 kHz ±2 dB; sens 89 dB; imp 6 ohms. Black finish. 17¼ x 6 x 7½ in $199

N.E.A.R.

Near 50Me II 3-Way Speaker
Tuned-port design with 8¼-in metal-alloy-cone woofer, 4-in metal-alloy midrange, and 1⅛-in titanium-cone tweeter. Proprietary magnetic-liquid driver suspensions; antiresonant device; time-aligned midrange and tweeter. Power handling 300 W max; crossover points 235 Hz and 3.2 kHz; FR 30 Hz-23 kHz ±1.5 dB; sens 86 dB; imp 8 ohms. Walnut, oak, or black ash finish. 10-yr limited warranty. 10½ x 48 x 12 in; 55 lb $2,499/pr
As above, rosewood $2,990/pr

Near 20M II 2-Way Speaker
Two 5¼-in metal-alloy-cone woofers and one 1-in titanium-cone tweeter. Proprietary magnetic-liquid suspension. Crossover point 3 kHz; FR 42 Hz-22 kHz; imp 4 ohms. Ash laminate. 10-yr limited warranty. 22 x 7 x 10 in; 32 lb $899/pr

Near 15M 2-Way Bookshelf Speaker
Bass-reflex design with 6¼-in metal-alloy-cone woofer and 1⅛-in titanium-cone tweeter. Proprietary magnetic-liquid driver suspensions; antiresonant device. Power handling 150 W max; crossover point 2.1 kHz; FR 45 Hz-22 kHz ±2 dB; sens 88 dB; imp 8 ohms. Black ash finish. 10-yr limited warranty. 15 x 12 x 9½ in $799/pr

Near 10M II 2-Way Bookshelf Speaker
Bass-reflex design with 5¼-in metal-alloy-cone woofer and 1⅛-in titanium-cone tweeter. Proprietary magnetic-liquid driver suspensions. Power handling 100 W max; crossover point 2.1 kHz; FR 48 Hz-22 kHz ±2 dB; sens 88 dB; imp 4 ohms. Walnut finish. 10-yr limited warranty. 7 x 11 x 9 in; 14 lb $599/pr
Black ash laminate finish $449/pr
White vinyl $449/pr
Model 10MV II. Magnetically shielded center-channel version of above model. Black ash laminate finish $349

Near WAF-2 2-Way Outdoor Speaker
Coaxial design with 5¼-in woofer and dome tweeter. Available in 4-, 8-, or 16-ohm models. Power handling 100 W max; FR 65 Hz-20 kHz; sens 88 dB $379/pr

Near WAF-1 In-Wall Speaker
5¼-in full-range driver. Designed for indoor, outdoor, or marine use. Available in 4-, 8-, or 16-ohm models. Power handling 100 W max; FR 65 Hz-14 kHz; sens 88 dB $299/pr

Home Theater Speakers
The following have metal-alloy driver diaphragms, proprietary magnetic-liquid driver suspensions, and carry a 10-year warranty.

Main Mast 2-Way Speaker
Four 5¼-in metal-alloy-cone woofers and one 1⅛-in titanium-cone tweeter. Power handling 300 W max; crossover point 3 kHz; FR 30 Hz-22 kHz; sens 90 dB; imp 8 ohms. Black-gloss finish on base and top. 10-yr limited warranty. 58½ x 7 x 10 in; 62 lb $1,999/pr

PS-4 Powered Subwoofer
Acoustic-suspension design with four 8-in metal drivers; 250-W amp. Variable low-pass filter. Switchable limiter circuit. FR 24-145 Hz. Black ash finish. 24 x 19 x 36 in; 130 lb $1,999
PS-2. As above, two drivers. High-density Biocomp top panel. 19 x 20 x 15½ in; 65 lb $1,299

Mast-HT 2-Way Speaker
Two 5¼-in metal-alloy-cone woofers and 1⅛-in titanium-cone tweeter. Power handling 150 W max; crossover point 3 kHz; FR 80 Hz-22 kHz; sens 91 dB; imp 4 ohms. Black-gloss finish. 7 x 48 x 7½ in; 53 lb $1,099/pr

Genoa 3-Way Center-Channel Speaker
Two 5¼-in woofers, one 4-in midrange, and one 1-in titanium-dome tweeter. Power handling 200 W; crossover points 235 Hz and 4 kHz; FR 80 Hz-21 kHz ±2 dB; sens 89 dB; imp 4 ohms. Black ash or rosewood finish. 10-yr warranty. 20 x 10 x 9¾ in; 40 lb $799

Spinnaker 10MBD 2-Way Dipolar Surround Speaker
Switchable dipole/bipole acoustic-suspension with two 5¼-in metal-alloy-cone woofers and two 1⅛-in titanium-cone tweeters. Power handling 150 W max; crossover point 2.1 kHz; FR 60 Hz-22 kHz ±2 dB; sens 88 dB; imp 8 ohms. Black ash finish. 7 x 11 x 9 in; 21 lb $799/pr

Model 20JIB 2-Way Center-Channel Speaker
Two 5¼-in metal-alloy-cone woofers and one 1⅛-in titanium-cone tweeter. Magnetic shielding. Power handling 150 W max; crossover point 3 kHz; FR 42 Hz-22 kHz ±2 dB; sens 88 dB; imp 4 ohms. Black ash laminate finish. 22 x 7 x 10 in; 36 lb $499

AEL Outdoor Series
The following are waterproof and carry a 5-year warranty.

AEL-1.8 2-Way Outdoor Speaker
8¼-in metal-cone woofer and 1⅛-in titanium-cone tweeter. High-density fiberglass cabinet. Power handling 200 W max; crossover point 2.5 kHz; FR 38 Hz-25 kHz; sens 92 dB; imp 8 ohms. 9½ x 16 x 8 in; 30 lb $799/pr

AEL-1.6A. 6-in metal-alloy-cone woofer and 1⅛-in titanium-cone tweeter. High-density polyethylene cabinet. FR 60 Hz-20 kHz ±3 dB; sens 90 dB. 8¼ x 14⅛ x 7⅛ in; 14 lb $638/pr
AEL-1.5A 2-Way Outdoor Speaker. As above, FR 55 Hz-20 kHz ±3 dB; sens 89 dB. 8 x 14 x 8 in; 14 lb $630/pr

AEL-1.4A 2-Way Outdoor Speaker
5¼-in woofer and 1⅛-in titanium-cone tweeter. Power handling 150 W max; FR 48 Hz-25 kHz; sens 89 dB; imp 4 ohms. 8⅛ x 12⅞ x 7 in; 9 lb $498/pr

AEL-1.2A 2-Way Outdoor Speaker
Coaxial design with 5¼-in metal-cone woofer and polycarbonate tweeter. Power handling 100 W max; FR 70 Hz-22 kHz; sens 89 dB; imp 4 ohms. 7¾ x 7¾ x 7 in; 8 lb $390/pr
AEL-1.1A. As above, 5¼-in full-range driver only. FR 70 Hz-13 kHz; sens 88 dB. 8 lb $350/pr

NEWFORM RESEARCH

The following are sold factory-direct in North America; prices include UPS delivery. Freestanding ribbon elements used in the No Holds Barred, R830 and Standing Module speakers are mounted on top of the bass cabinet. The R55's ribbon tweeter is mounted in its front baffle.

No Holds Barred 3-Way Hybrid Ribbon Speaker
Two 5-in woofers and two 30-in midrange/tweeter ribbon elements. External crossovers and custom brackets. Power handling 300 W; FR 31 Hz-20 kHz; sens 92 dB; imp 6 ohms. 7 x 86 x 9 in; 190 lb $4,717/pr
NHB Essential. As above, internal crossover and floor stands $2,540/pr

NHB 45 2-Way Hybrid Ribbon Speaker
Acoustic-suspension design with two 5-in woofers and one 45-in monopolar ribbon driver. MDF cabinet. Biampable terminals. Power handling 150 W; crossover point 1.2 kHz; FR 80 Hz-20 kHz ±2 dB; sens 91 dB; imp 6 ohms. Black oak finish. 5-yr parts-and-labor warranty. 7 x 76 x 9 in; 112 lb $2,290/pr
R530. As above, one 5-in woofer and 30-in monopolar ribbon driver. FR 42 Hz-20 kHz ±2 dB; sens 87 dB; imp 8 ohms. 6 x 57 x 9 in; 45 lb $1,305/pr
R58. As above, but with 8-in monopolar ribbon driver. Power handling 100 W; crossover point 1.4 kHz; FR 46 Hz-20 kHz ±2 dB; sens 86 dB. 8 x 21 x 11 in; 24 lb $910/pr

R645 2-Way Hybrid Ribbon Speaker
Bass-reflex design with two 6½-in woofers and one 45-in monopolar ribbon tweeter. Double-braced MDF enclosure. Biampable terminals. Power handling 200 W; crossover point 1.2 kHz; FR 32 Hz-20 kHz; sens 94 dB; imp 6 ohms. High-gloss black or rosewood finish. 5-yr warranty. 10 x 73 x 14 in; 86 lb $2,265/pr

I Want It All Quad 18 Powered Subwoofer
Bipolar acoustic-suspension design with four 18-in woofers; 300-W amp. Infrasonic filter; triple-braced MDF cabinet. Line- and speaker-level outputs. Phase, level, and crossover controls. Crossover point variable from 40-100 Hz; FR 12-80 Hz ±2 dB. Black oak finish. 5-yr parts-and-labor warranty. 24 x 24 x 32 in; 118 lb $1,690

R630 2-Way Hybrid Ribbon Speaker
Bass-reflex design with 6½-in polypropylene woofer and 30-in monopolar ribbon tweeter. 1-in double-braced MDF enclosure. Biampable terminals. Power handling 150 W; crossover point 1.2 kHz; FR 35 Hz-20 kHz ±3 dB; sens 88 dB; imp 8 ohms. Black oak, high-gloss black, or high-gloss rosewood finish. 5-yr warranty. 10 x 58 x 14 in; 70 lb $1,516/pr

R830 2-Way Hybrid Ribbon Speaker
Bass-reflex design with 8-in polypropylene woofer and 30-in ribbon tweeter. Power handling 150 W; crossover point 1.1 kHz; FR 38 Hz-20 kHz ±3 dB; sens 88 dB; imp 8 ohms. 11 x 61 x 15 in; 71 lb $1,236/pr

Standing Module 30 2-Way Hybrid Ribbon Speaker
5-in woofer and 30-in ribbon tweeter. Power handling 100 W; FR 80 Hz-20 kHz ±3 dB; sens 88 dB; imp 8 ohms. 6 x 57 x 9 in; 42 lb $990/pr

Quad 12 Powered Subwoofer
Bipolar acoustic-suspension design with four 12-in drivers; 300-W amp. Infrasonic filter; triple-braced MDF cabinet. Line- and speaker-level outputs. Crossover point variable from 40-100 Hz; FR 12-80 Hz ±2 dB. Black oak finish. 5-yr parts-and-labor warranty. 19 x 19 x 24 in; 86 lb $930

R55 2-Way Hybrid Ribbon Speaker
Acoustic-suspension design with 5-in woofer and 5-in ribbon tweeter. Power handling 100 W; crossover point 1.4 kHz; FR 80 Hz-35 kHz ±3 dB; sens 88 dB; imp 8 ohms. 6 x 15 x 10 in; 23 lb $556/pr

NHT

Model 3.3 4-Way Speaker
Acoustic-suspension design with 12-in side-firing polypropylene woofer, 6½-in polypropylene woofer, 4-in polypropylene midrange, and 1-in ferrofluid-cooled aluminum-dome tweeter. Power handling 300 W max; FR 23 Hz-26 kHz ±3 dB; sens 87 dB; imp 6 ohms. High-gloss mahogany or sycamore laminate. 7 x 42 x 31 in; 123 lb $4,500/pr
As above, Italian black-satin laminate $4,300/pr
Model 2.9. As Model 3.3, 10-in and 6½-in woofers. Power handling 250 W max; FR 26 Hz-26 kHz ±3 dB. 7 x 39½ x 21 in; 78 lb $2,675/pr
As above, high-gloss black laminate $2,500

VT-2 3-Way Speaker
Bass-reflex design with built-in subwoofer with side-firing 10-in polypropylene driver, two 5¼-in polypropylene midranges, and one 1-in ferrofluid-cooled soft-dome tweeter. Magnetic shielding on top section. Power handling 250 W max; FR 25 Hz-21 kHz ±3 dB; sens 88 dB; imp 6 ohms. High-gloss black laminate finish. 7¾ x 48 x 18 in; 75 lb $1,800/pr

Model 2.5i 3-Way Speaker
Bass-reflex design with 8-in side-firing woofer, 6½-in polypropylene midrange, and 1-in ferrofluid-cooled aluminum-dome tweeter. Power handling 200 W max; FR 29 Hz-25 kHz ±3 dB; sens 86 dB; imp 6 ohms. High-gloss mahogany or sycamore laminate. 7 x 38 x 15½ in; 53 lb $1,450/pr
As above, high-gloss black laminate ...$1,300/pr

SW3P Powered Subwoofer
Acoustic-suspension design with 12-in polypropylene woofer; outboard 250-W Class G amp. 12 dB/oct high-pass filter selectable at 65, 80, 100, 125, or 150 Hz; 24 dB/oct low-pass filter variable from 35-150 Hz. Line-level inputs and outputs. FR 23-250 Hz ±3 dB. High-gloss black laminate finish. Subwoofer: 19 x 19 x 19 in. Amp: 17 x 5⅛ x 14½ in. 96 lb total $1,350

VT 1.2 3-Way Speaker
Vented design with one side-firing 8-in woofer, two 4½-in midranges, and one 1-in ferrofluid-cooled soft-dome tweeter. Magnetic shielding on top section. Power handling 200 W max; FR 33 Hz-21 kHz ±3 dB; sens 86 dB; imp 8 ohms. High-gloss black laminate finish. 5½ x 38 x 15¾ in; 42 lb $1,100/pr

ASW8ci In-Wall Powered Subwoofer
Acoustic-suspension design with 8-in long-throw polypropylene woofer; 120-W amp. Single-wire binding posts. Bass boost. FR 35-150 Hz ±3 dB; sens 89 dB; imp 8 ohms. Black. 5-yr speaker, 1-yr amp warranty. Rectangular frame. Mounting depth 3½ in $800

HDP-2 3-Way Surround Speaker
Hybrid-dipolar acoustic-suspension design with one 6½-in woofer, two 4½-in midranges, and two 1-in ferrofluid-cooled soft-dome tweeters. Includes wall-mounting brackets. Power handling 125 W max; FR 57 Hz-20 kHz ±3 dB; sens 87 dB; imp 6 ohms. High-gloss black or white laminate. 18 x 9 x 7½ in; 19 lb $800/pr

SW2Pi Powered Subwoofer
Bass-reflex design with 10-in woofer; outboard 120-W Class G amp. 12 dB/oct high-pass filter selectable at 50, 75, or 110 Hz; 18 dB/oct low-pass filter variable from 35-150 Hz. Line- and speaker-level inputs and outputs. FR 27-500 Hz ±3 dB. Black or white laminate. Subwoofer: 16 x 16 x 16 in. Amp 16 x 3¾ x 10¾ in. 54 lb total $800

Super Two 3-Way Speaker
Bass-reflex design with 6½-in long throw woofer, 6½-in midrange, and 1-in ferrofluid-cooled soft-dome tweeter. Magnetic shielding. Biampable 5-way binding posts. Includes stabilizer bars and spike kit. Power handling 25 W min, 175 W max; crossover points 120 Hz and 2.2 kHz; FR 35 Hz-25 kHz ±3 dB; sens 87 dB; imp 8 ohms. High-gloss black laminate. 5-yr limited parts-and-labor warranty. 7¼ x 38 x 10 in; 40 lb $750/pr

Model 1.5 2-Way Speaker
Acoustic-suspension design with 6½-in polypropylene woofer and 1-in ferrofluid-cooled aluminum-dome tweeter. Power handling 150 W max; FR 53 Hz-25 kHz ±3 dB; sens 86 dB; imp 8 ohms. High-gloss mahogany or sycamore laminate. 7 x 16½ x 10¼ in; 16 lb $675/pr
As above, high-gloss black laminate $600/pr

SW1P Powered Subwoofer
Bass-reflex design with 8-in woofer; outboard 60-W amp. Line- and speaker-level inputs; speaker-level outputs. 18 dB/oct low-pass filter variable from 50-200 Hz; FR 35-500 Hz ±3 dB. Black or white laminate. Subwoofer: 16 x 11¾ x 11¾ in. Amp: 16⅛ x 3⅛ x 10¾ in. 34 lb total $500

CS6.3ci 2-Way Ceiling Speaker
One 6½-in long-throw woofer and three 1-in soft-dome tweeters. Dispersion control. Includes mounting hardware. Power handling 10 W min, 100 W max; FR 66 Hz-20 kHz ±3 dB; sens 87dB; imp 8 ohms. White matte. 5-yr limited parts-and-labor warranty. Round frame. Mounting depth 5 in $450/pr

VS-2a 2-Way Satellite Speaker
Acoustic-suspension design with two 5¼-in polypropylene woofers and one 1-in ferrofluid-cooled soft-dome tweeter. Magnetic shielding. Includes wall-mounting brackets. Power handling 180 W max; FR 75 Hz-21 kHz ±3 dB; sens 88 dB; imp 8 ohms. High-gloss black or white laminate finish. 19¼ x 7¾ x 8 in; 17 lb $450

HDP-1 2-Way Surround Speaker
Acoustic-suspension design with one 4½-in woofer and two 3-in dipole-configured mid/tweeters. Power handling 100 W max; FR 105 Hz-10 kHz ±3 dB; sens 86 dB; imp 8 ohms. High-gloss black or white laminate finish. 5¾ x 9¼ x 5¾ in; 8 lb $380/pr

SuperOne C 2-Way In-Wall Speaker
6½-in long-throw polypropylene woofer and 1-in soft-dome tweeter. Power handling 10 W min, 100 W max; FR 50 Hz-20 kHz ±3 dB; sens 87 dB; imp 8 ohms. Matte white. 5-yr limited parts-and-labor warranty. Rectangular frame. Mounting area: 13⅛ x 9 in. Mounting depth 2¾ in $350/pr

CS6.1ci 2-Way Ceiling Speaker
Bass-reflex design with 6½-in long-throw polypropylene woofer and 1-in ferrofluid-cooled soft-dome tweeter. Includes mounting hardware. Power handling 10 W min, 100 W max; FR 69 Hz-20 kHz ±3 dB; sens 87 dB; imp 8 ohms. White matte. 5-yr limited parts-and-labor warranty. Round frame. Mounting depth 5 in $300/pr

VS-1.2a 2-Way Satellite Speaker
Acoustic-suspension design with two 4½-in woofers and one 1-in ferrofluid-cooled soft-dome tweeter. Magnetic shielding. Includes wall-mounting brackets. Power handling 150 W; FR 80 Hz-21 kHz ±3 dB; sens 86 dB; imp 8 ohms. High-gloss black or white laminate finish. 19 x 4¼ x 6¾ in; 14 lb $300

SuperOne 2-Way Speaker
Acoustic-suspension design with 6½-in woofer and 1-in ferrofluid-cooled soft-dome tweeter. Magnetic shielding. Matching stand optional. Power handling 150 W max; FR 57 Hz-25 kHz ±3 dB; sens 86 dB; imp 8 ohms. High-gloss black laminate finish. 7¼ x 11½ x 8½ in; 10 lb $175
SuperOne XU. As above with mounting hardware. Black or white finish $188
SuperZero. As SuperOne, 4½-in woofer. Power handling 100 W max; FR 85 Hz-25 kHz ±3 dB. 5½ x 9 x 5 in; 6 lb $125
SuperZero XU. As above with mounting hardware. Black or white finish $138

Home Theater Speaker Packages
VT-2 Home Theater System. Two VT-2 speakers and three VS-2a speakers. High-gloss black laminate finish $3,150

VT-1.2 Home Theater System. Two VT-1.2 speakers and three VS-1.2a speakers. High-gloss black laminate finish $2,000

NewWave Series
Home Theater System
6-speaker system with acoustic-suspension powered subwoofer with 8-in driver and 50-W amp; 5 magnetically shielded satellite speakers, each with 3½-in midrange and ¾-in soft-dome tweeter. Speaker-level inputs and outputs for left, center, and right front speakers. Adjustable volume settings on subwoofer. Includes wall-mounting brackets and center-channel feet. Power handling 100 W; crossover point variable from 80-220 Hz subwoofer, 4.5 kHz satellite; FR 45-220 Hz subwoofer, 160 Hz-20 kHz satellite; sens 88 dB; imp 8 ohms. Matte black finish. 5-yr speaker, 1-yr amp warranty $800
Music System. As above with only 2 satellite speakers; no wall-mounting brackets or center-channel feet $530

NILES

AT8700 3-Way In-Wall Speaker
8-in aluminum/titanium/urethane-cone woofer with high-temperature voice coil, cast-aluminum frame and bifilar voice-coil winding; two 1½-in fluid-cooled trilaminate aluminum/titanium/urethane-dome midranges; one swiveling 1-in fluid-cooled trilaminate aluminum/titanium/urethane dome tweeter. Bass-boost control; selectable proprietary filters; 359° rotating, 30° pivoting adjustable dispersion array; computer-optimized crossover with bass, midrange, and treble controls. Power handling 20-200 W; FR 30 Hz-21 kHz ±2 dB; sens 89 dB; impedance 8 ohms. White. Rectangular frame. Mounting area: 11 x 18⅜ in $1,799/pr
AT8500. As above, 8-in aluminum/urethane cone woofer with high-temperature voice coil and cast-aluminum frame; two 1½-in fluid-cooled trilaminate aluminum/urethane-dome midranges; one swiveling 1-in fluid cooled trilaminate aluminum/urethane-dome tweeter $1,499/pr
AT8200. As above, 8-in aluminum/urethane cone woofer with high-temperature aluminum voice coil $1,099/pr
AT8000. As above, 8-in carbon/glass fiber cone woofer, 1½-in midrange $899/pr

HD-CTRBX 2-Way Center-Channel Speaker
Two 5¼-in long-throw mica-filled polypropylene woofer with butyl-rubber surrounds; one proprietary 1-in fluid-cooled wide-dispersion tweeter. Directed Sound Field Geometry offset tweeter for enhanced image dispersion in a home-theater setting; magnetic shielding. 3-dB high-frequency-cut adjustment. Power handling 10-150 W; FR 45 Hz-21 kHz ±3 dB; sens 90 dB; imp 8 ohms. Black ash. 21 x 7¼ x 9¾ in $400

OS-20 2-Way Outdoor Speaker
Acoustic-suspension design with 6½-in polypropylene woofer and 1-in ferrofluid-cooled tweeter. Weather-resistant polypropylene cabinet. Gold-plated 5-way binding posts. Includes aluminum mounting brackets. Power handling 100 W; FR 65 Hz-21 kHz ±3 dB; sens 91 dB; imp 8 ohms. White. 8⅜ x 11 x 7¾ in $399/pr

HD-CTR 2-Way In-Wall Speaker
Two 5¼-in polypropylene woofers and one 1-in ferrofluid-cooled dome tweeter. Directed Sound Field Geometry to improve dispersion; magnetic shielding. High-frequency switch. Power handling 150 W; FR 45 Hz-21 kHz ±3 dB; sens 89 dB; imp 8 ohms. White. Rectangular frame. Mounting area: 8 x 14 in $299
HD-LRS. As above, no magnetic shielding ..$279

CM-650BG 2-Way Ceiling Speaker
6½-in polypropylene woofer and ¾-in polycarbonate tweeter. Rust-proof grille. Includes flip-tab mounting system. Power handling 50 W; crossover point 3.5 kHz; FR 55 Hz-20 kHz ±3 dB; sens 91 dB; imp 8 ohms. White. Round frame. Mounting diameter: 8 in. Mounting depth 3⅜ in $199/pr

Blueprint Series
The following are white and weather resistant, with round frames and rust-proof aluminum grilles, and include a flip-tab mounting system.

CM-800MP 2-Way Ceiling Speaker
8-in polypropylene dual- voice-coil woofers and

1⅛-in polycarbonate tweeter. Power handling 85 W; FR 40 Hz-20 kHz ±3 dB; sens 90 dB; imp 8 ohms. Mounting diameter: 9½ in. Mounting depth 3¾ in $379/pr
CM-650MP. As above, 6½-in polypropylene dual-voice-coil woofers and 1¾-in polycarbonate tweeter. Power handling 75 W; FR 50 Hz-20 kHz ±3 dB. Mounting diameter: 8 in. Mounting depth 3⅜ in $299/pr

CM-800SW Ceiling Speaker
8-in mica-filled polypropylene dual-voice-coil woofer. Power handling 150 W; FR 35-140 Hz ±3 dB; sens 89 dB; imp 8 ohms. Mounting diameter: 9½ in. Mounting depth 4 in $229

NSM LOUDSPEAKERS

Model 60M 3-Way Speaker
6½-in fiberglass woofer and 6½-in polypropylene-cone midrange with coaxially mounted 1-in soft-dome tweeter. Solid-copper woofer phase plug; open-cell foam, sand, and polyester damping. Power handling 300 W max; FR 40 Hz-20 kHz ±3 dB; sens 86 dB; imp 8 ohms. Walnut veneer finish. 9 x 43 x 10 in; 68 lb $6,495/pr

Model 200 3-Way Speaker
Acoustic-suspension design with one slot-loaded downward-firing 15-in treated-paper-cone woofer, two 6½-in polypropylene midranges, and one 1-in soft-dome tweeter. Drivers in D'Appolito array; 6-dB/oct crossovers for midrange and tweeter, 18-dB/oct crossover for woofer. Power handling 10-250 W; FR 20 Hz-20 kHz ±3 dB; sens 91 dB; imp 4 ohms. Satin black or walnut. 52 x 15 x 20 in $4,995/pr

Model 20M 2-Way Bookshelf Speaker
Coaxial design with 6½-in polypropylene woofer and 1-in soft-dome tweeter. Open-cell foam and polyester damping. Power handling 300 W max; FR 48 Hz-20 kHz; sens 85 dB; imp 8 ohms. Walnut veneer finish. 9 x 14 x 10 in; 50 lb $2,295/pr

Model 50 3-Way Speaker
Two 6½-in ferrofluid-cooled polypropylene woofers and one 1-in ferrofluid-cooled soft-dome tweeter. 6-dB/oct crossovers; open-cell foam and polyester damping. Biampable terminals. Power handling 250 W max; FR 40 Hz-20 kHz ±3 dB; sens 85 dB; imp 8 ohms. Piano-black or walnut-veneer finish. 9 x 36 x 10 in; 55 lb $1,495/pr

Segue 2-Way Bookshelf Speaker
6½-in polypropylene woofer and 1-in soft-dome tweeter. Power handling 10-250 W; FR 52 Hz-20 kHz ±3 dB; sens 90 dB; imp 8 ohms. 14 x 8 x 9½ in; 15 lb $1,395/pr

ACTR1 2-Way Speaker
Hybrid transmission-line/acoustic-suspension design with two 6½-in woofer and one 1-in tweeter. 6-dB/oct crossover; magnetic shielding. Biampable terminals. Power handling 250 W; FR 38 Hz-20 kHz ±3 dB; sens 91 dB; imp 4 ohms. Black-satin lacquer and black fabric finish. 7½ x 24 x 16 in $995

Model 10S 2-Way Bookshelf Speaker
4½-in ferrofluid-cooled polypropylene woofer and 1-in ferrofluid-cooled soft-dome tweeter. 6-dB/oct crossover; open-cell foam and polyester damping. Biampable terminals. Power handling 250 W max; FR 55 Hz-20 kHz ±3 dB; sens 84 dB; imp 8 ohms. Satin black finish. 5½ x 10 x 6 in; 18 lb ... $795/pr
Model 10. As above, terminals not biampable. Power handling 200 W max; sens 82 dB $595/pr

EXP Powered Subwoofer
Bandpass design with 6½-in magnetically-shielded driver; amp rated at 140 W rms. 24-dB/oct crossover. Line- and speaker level RCA and binding-posts inputs and outputs. Auto on/off; phase switch; volume control. FR 28-175 Hz ±3 dB. Satin black finish. 8 x 14 x 12 in $695

Model 15EXP Powered Subwoofer
Bass-reflex design with 10-in long-throw treated-paper-cone driver; amp rated at 150 W rms. MDF cabinet construction; 24-dB/oct crossover. Line- and speaker-level RCA and binding-post inputs and outputs. Auto on/off; phase switch; volume control; Dolby Digital direct switch. Crossover point continuously variable from 40-200 Hz; FR 28-175 Hz ±3 dB. Satin black or walnut finish. 18 x 12 x 14 in; 45 lb $595

ODEON

Model 33 Ultimate 3-Way Speaker
Bass-reflex design with 12½-in woofer, 6-in aluminum die-cast midrange, and 1-in titanium tweeter. Mechanically decoupled; 3 separate chassis for the woofer, midrange, and tweeter. Triampable terminals. Includes floor stand. Power handling 300 W; FR 29 Hz-19 kHz ±3 dB; sens 96 dB; imp 8 ohms. 5-yr warranty. 15¼ x 65¾ x 10 in; 220 lb $38,400/pr
Model 30. As above, 12-in aluminum die-cast woofer, 4-in aluminum die-cast midrange. 3 separate crossovers for bass, midrange, and high frequencies. FR 35 Hz-19 kHz ±3 dB; sensitivity 95 dB. Birch-root finish. 18 x 50½ x 8¾ in; 165 lb $27,500/pr

La Boheme 2-Way Speaker
10-in woofer, 1-in titanium compression tweeter with spherical wooden horn. FR 48 Hz-19 kHz ±3 dB; sens 98 dB; imp 8 ohms. Walnut, Burlwood. 156 lb $15,000/pr

La Traviata 2-Way Speaker
8-in woofer, 1-in titanium compression tweeter with spherical wooden horn. FR 53 Hz-20 kHz ±3 dB; sens 96 dB. Beech. 112 lb $12,000/pr

Model 25 2-Way Speaker
10-in doped-paper-cone woofer and 1-in titanium tweeter. Separate tweeter enclosure with Odeon spherical-wooden horn; mechanically decoupled. Biamp terminal. Includes floor stand. Power handling 250 W; FR 38 Hz-19 kHz ±3 dB; sens 95 dB; imp 8 ohms. Walnut-root finish. 5-yr warranty. 13 x 47 x 15 in; 85 lb $11,500/pr

Double Seven 3-Way Speaker
Two 7-in woofers; one 4-in cone midrange with 12-in spherical wooden horn; one 1-in tweeter with 6½-in spherical wooden horn. FR 45 Hz-20 kHz ±3 dB; sens 94 dB; imp 8 ohms. Walnut finish. 88 lb $8,500/pr

Double Six 2-Way Bookshelf Speaker
Bass-reflex design with 6-in doped paper-cone woofer and 1-in soft-dome tweeter. Spherical horn. Biampable terminal. Power handling 100 W; FR 53 Hz-20 kHz ±3 dB; sens 91 dB; imp 8 ohms. Birch-root finish. 5-yr warranty. 7 x 41 x 10½ in; 94 lb $3,600/pr

Single Six 2-Way Speaker
One 5¼-in woofer, one 1-in dome tweeter with spherical wooden horn. Crossover point 2.5 kHz; FR 50 Hz-20 kHz ±3 dB; sens 88 dB; imp 8 ohms. Birch. 39 x 6 x 9 in; 35 lb $2,900/pr

Model 17 2-Way Bookshelf Speaker
Bass-reflex design with 6-in doped paper-cone woofer and 1-in soft-dome horn tweeter. Biampable terminals. Power handling 100 W; FR 50 Hz-20 kHz ±3 dB; sens 89 dB; imp 8 ohms. Birch-plywood enclosure. 5-yr warranty. 8¼ x 15 x 11 in; 15 lb $2,600/pr

ODYSSEY

Mystique 2-Way Powered Speaker
Bass-reflex design with 8-in polypropylene woofer and 1-in ferrofluid-cooled dome tweeter; 30-W amp. FR 34 Hz-21 kHz ±3 dB; sens 90 dB; imp 8 ohms. Black or light oak. 10 x 36 x 15 in; 45 lb $995/pr

OEM SYSTEMS

NeC-830 3-Way In-Wall Speaker
8-in carbon-fiber woofer with butyl-rubber surround; pivoting 1-in titanium-dome midrange; pivoting ¾-in titanium-dome tweeter. Power handling 100 W max; FR 40 Hz-21 kHz; sens 90 dB; imp 8 ohms. Rectangular frame. Mounting area: 10½ x 14½ in. Mounting depth 3¼ in $500/pr

NeC-820 2-Way In-Wall Speaker. 8-in carbon-fiber woofer with butyl-rubber surround; pivoting 1-in titanium-dome tweeter. Power handling 100 W max; FR 40 Hz-21 kHz; sens 90 dB; imp 8 ohms. Rectangular frame. Mounting area: 10½ x 14½ in. Mounting depth 3¼ in $450/pr
NeC-6.50. As above, 6½-in carbon-fiber woofer with butyl-rubber surround. Power handling 80 W max; FR 50 Hz-21 kHz. Mounting area: 8½ x 12 in $400/pr
NeC-5.50. As above, 5½-in carbon-fiber woofer with butyl-rubber surround. Power handling 70 W max; FR 60 Hz-21 kHz. Mounting area: 7½ x 11 in. Mounting depth 2½ in $330/pr

SE-620 2-Way Speaker
Bass-reflex design with 6½-in carbon-fiber woofer and 1-in titanium dome tweeter. Power handling 100 W max; FR 40 Hz-20 kHz; sens 88 dB; imp 8 ohms. Available in black or white. 10½ x 7 x 6 in ... $350/pr

C-8SW In-Wall Subwoofer
8-in carbon-fiber driver. Power handling 100 W max; FR 30-120 Hz; sens 90 dB; imp 8 ohms. Rectangular frame. Mounting area: 10½ x 14½ in. Mounting depth 3¼ in $300

OHM ACOUSTICS

Walsh 300 MK2 Speaker
Controlled dispersion from 360° for bass to 180° for treble. Power handling 300 W; FR 20 Hz-20 kHz; sens 87 dB; imp 6 ohms. Oak, walnut, or black. 5-yr warranty. 18 x 48 x 14 in; 95 lb $3,995/pr
Walsh 200 MK2. As above, power handling 220 W; FR 25 Hz-20 kHz. 16 x 43 x 12 in $2,995/pr

Walsh 100 MK2 Speaker
Power handling 140 W; FR 29 Hz-12 kHz; sens 87 dB; imp 6 ohms. Oak, walnut, or black wood veneer. 14 x 39 x 10 in $1,395/pr

Ohm G3 Omni Speaker
Power handling 100 W; FR 29 Hz-12 kHz; sens 87 dB; imp 6 ohms. Black or walnut-veneer finish. 13 x 35 x 11 in $1,295/pr

SB-4 Subwoofer
Two 12-in woofers, each with four 2-in voice coils. Designed for use with P-3 speakers. Outputs for 4 speakers. Can hold TV with up to 32-in screen. Power handling 150 W; FR 29-80 Hz; sens 90 dB; imp 6 ohms. Textured black finish. 28 x 17 x18 in $895

P-1 3-Way Speaker
Bass-reflex design with 6½-in woofer, 1-in tweeter, and ⅝-in super tweeter. Power handling 125 W; FR 37 Hz-20 kHz; sens 89 dB; imp 6 ohms. Black. 5-yr warranty. 8 x 24 x 12 in; 29 lb $795/pr

P-3 2-Way Speaker
Acoustic-suspension design with 6½-in woofer and 1-in tweeter. Power handling 150 W; FR 80 Hz-20 kHz; imp 6 ohms. 7 x 8 x 12 in $750/pr

SB-2P Subwoofer
10-in driver. Designed for use with P-3 speakers. Power handling 150 W/ch; crossover point 100 Hz; FR 35-100 Hz; sens 90 dB; impedance 6 ohms. Black or white textured finish. 17 x 15 x 23 in $595
SB-1. As SP-2P, FR 42-100 Hz. 9 x 13 x 23 in ... $395

2-Way Dipolar Satellite Speaker
Dipolar design. Power handling 150 W; FR 100 Hz-12 kHz; sens 90 dB; impedance 8 ohms. 14 x 3 x 6 in $495/pr

P-2 3-Way Speaker
Acoustic-suspension design with 6½-in woofer, 1-in low tweeter, and ⅝-in super tweeter. Power handling 100 W; FR 60 Hz-20 kHz; sens 89 dB; imp 8 ohms. 8 x 17 x 7 in; 16 lb $495/pr

SAT-1 Surround Speaker
Various mounting systems available. Power handling 60 W; FR 100 Hz-12 kHz; sens 90 dB; imp 6 ohms. Black vinyl finish. 7 x 8 x 7 in $220/pr

ONKYO

HTS System 2 THX Home Theater System
6-speaker system with 120-W, dual-drive powered 12-in cone subwoofer; center-channel speaker and two front speakers, each with 6½-in cone woofer, 3-in midrange, and 1-in soft-dome tweeter; two wall-mountable dipolar speakers, each with 5¼-in woofer and 1-in tweeter. Power handling 100 W; crossover points 450 Hz and 5 kHz; FR 35 Hz-200 kHz ±3 dB sub, 80 Hz-20 kHz ±3 dB front and center, 125 Hz-20 kHz ±3 dB surround; imp 6 ohms. Black. Front: 8¾ x 39⅜ x 10⅛ in; 32 lb. Center: 24⅜ x 10¾ x 11½ in; 30 lb. Rear: 9⅞ x 10⅞ x 6⅜ in; 12 lb. Subwoofer: 17½ x 22⅜ x 20⅞ in; 71 lb $3,500

OPTIMUS BY RADIO SHACK

PRO-SW200P Powered Subwoofer
Bass-reflex design with 12-in coated-paper-cone woofer; 200-W amp. Gold-plated binding posts; RCA inputs. Auto on/off; LED power indicator; remote volume control. Crossover point variable from 50-200 Hz; sens 78 dB; imp 4 ohms. Black. 5-yr warranty. 16 x 16 x 16 in; 45 lb $400

PRO-SW100P Powered Subwoofer
Bass-reflex design with 10-in coated-paper-cone woofer; 100-W amp. Speaker- and line-level inputs. Auto on/off; volume control; LED power indicator. Crossover point variable from 50-200 Hz; sens 83 dB; imp 4 ohms. Black. 5-yr warranty. 14 x 14 x 14¾ in; 30 lb $300

AMX-25 Powered Wireless Speaker System
Two 2-way bass-reflex speakers, each with 4-in woofer and 2-in tweeter; 10-W amp built into one speaker; 900-MHz RF receiver and transmitter with 150-ft range that plugs into stereo system's line-level output, ¼-in, or ⅛-in headphone jack. On/off switch; fine-tuning, volume, and bass controls. Includes connecting cable and AC adapters. FR 50 Hz-15 kHz system $250
RSU 1707734. Additional speaker $100
RSU 11244746. Mounting brackets $30/pr

PRO LX10 2-Way Dipolar Speaker
Dipolar bass-reflex design with two 7-in polypropylene woofers and one top-mounted ferrofluid-cooled dipole tweeter designed by Linaeum. Gold-plated terminals. Removable grilles on top and front. Power handling 80 W rms; FR 50 Hz-25 kHz. 9¼ x 33⅜ x 11⅛ in $250

STS 1500 3-Way Speaker
Bass-reflex design with 15-in woofer, 6½-in midrange, and 4 x 10-in piezo-horn tweeter. Power handling 150 W rms; FR 22 Hz-20 kHz. 36 x 18 x 12 in $250

PRO-LS3 2-Way Outdoor Speaker
Acoustic-suspension design with 5-in polypropylene woofer and ½-in ferrofluid-cooled polycarbonate tweeter. 5-way gold-plated binding posts. Includes swivel-type aluminum mounting brackets. Power handling 75 W rms; FR 85 Hz-20 kHz; sens 87 dB; imp 8 ohms. White. 5-yr warranty. 7 x 11 x 6 in; 4 lb $200/pr

STS 800 3-Way Speaker
8-in polypropylene woofer, 5-in midrange, and ¾-in Mylar-dome tweeter. Power handling 100 W rms; FR 45 Hz-20 kHz. 34 x 9½ x 11 in $200

PRO CS-5 2-Way Center-Channel Speaker
Bass-reflex design with dual 5-in polypropylene woofers and one 3 x 3½-in wide-angle monopole tweeter. Includes adjustable feet for angling enclosure up or down. Power handling 80 W rms; FR 70 Hz-25 kHz. 6¼ x 18¼ x 10 in $150

PRO SW-14 Subwoofer
Bass-reflex design with 12-in cone woofer. Power handling 100 W rms; FR 29-200 Hz. 15¼ x 17 x 16 in $150

PRO-LX5II 2-Way Bookshelf Speaker
Bass-reflex design with 5-in polypropylene woofer and top-mounted dipole tweeter designed by Linaeum. Magnetic shielding. Two gold-plated 5-way binding posts. Power handling 65 W rms; FR 85 Hz-25 kHz; sens 88 dB; imp 8 ohms. Black. 5-yr warranty. 6¼ x 10½ x 6½ in $150

PRO-SWS300 Powered Computer Speaker System
3-speaker system with subwoofer with 4-in driver and 12-W amp; two satellites, each with 5-W amp. Magnetic shielding; AC powered. RCA inputs. Bass and volume controls. FR 60 Hz-20 kHz; sens 86 dB; imp 4 ohms. Computer white. Subwoofer 9⅜ x 10¾ x 6⅜ in. Satellite 4⅜ x 6⅜ x 6⅞ in $130

STS-1000 3-Way Speaker
12-in long-throw woofer, 5-in midrange, and ¾-in dome tweeter. Power handling 100 W rms; FR 40 Hz-20 kHz. Woodgrain black-vinyl finish. 14 x 23 x 10⅞ in $130

Model 40-1425 2-Way In-Wall Speaker
6½-in woofer and polypropylene monopole tweeter. Pivoting tweeter directs sound to listening and viewing area. Includes wall-mount bracket. Power handling 50 W rms, 100 W max; crossover point 2.5 kHz; FR 65 Hz-25 kHz; sens 89 dB; imp 8 ohms. White finish. Rectangular frame $100

PRO-CS-3 2-Way Center-Channel Speaker
Two 4-in woofers and one soft-dome tweeter. Magnetic shielding. Power handling 60 W rms; FR 65 Hz-20 kHz. 14¼ x 5 x 9¼ in $100

PRO-X88AV 2-Way Bookshelf Speaker
Acoustic-suspension design with 5-in polypropylene woofer and monopole tweeter designed by Linaeum. Spring-clip terminals. Includes 4 rubber feet. Power handling 60 W rms; FR 80 Hz-25 kHz; sens 88 dB; imp 8 ohms. Black or white. 5-yr warranty $100

PRO-LS2 2-Way Center-Channel Minispeaker
Acoustic-suspension design with two 4-in paper-cone woofers and one ½-in ferrofluid-cooled polycarbonate tweeter. Magnetic shielding; wall mountable. 2 speaker-level spring-clip terminals. Includes matching tilted base. Power handling 100 W rms; FR 150 Hz-20 kHz; sens 87 dB; imp 8 ohms. Black. 5-yr warranty. 12 x 4⅞ x 4⅞ in; 5 lb $80

PRO-SW30 Powered Mini Subwoofer
Bass-reflex design with 4-in woofer; 15-W amp. Magnetic shielding; AC powered. Volume control. FR 60-300 Hz; imp 4 ohms. White. 6⅜ x 10¾ x 9⅜ in $80

All information in these listings is provided by the manufacturers. If you want to know more, see the directory on page 233 for addresses and phone numbers.

PRO-X55AV 2-Way Bookshelf Speaker
Acoustic-suspension design with 5-in polypropylene woofer and 1-in soft-dome tweeter. Magnetic shielding; wall mountable. Spring-clip terminals. Includes 4 rubber feet. Power handling 70 W rms; FR 80 Hz-20 kHz; sens 87 dB; imp 8 ohms. Black or white. 5-yr warranty $80
PRO-X44AV. As above, power handling 50 W rms; FR 90 Hz-20 kHz; sens 88 dB $60
PRO-X33AV. As above, 3-in paper-cone woofer and 1-in polyester-film tweeter. Power handling 15 W rms; FR 140 Hz-20 kHz; sens 87 dB; imp 8 ohms. Black. 4⅛ x 6½ x 4⅜ in; 3 lb $40

STS-100 3-Way Bookshelf Speaker
Acoustic-suspension design with 8-in woofer, 4-in midrange, and ⅜-in dome tweeter. Power handling 50 W rms; FR 75 Hz-20 kHz. Black woodgrain vinyl finish. 10¾ x 16⅞ x 12¼ in $80

XTS 10 2-Way Satellite Speaker
3½-in woofer and 2¼-in tweeter in separate attached swiveling cube. Power handling 30 W rms; FR 170 Hz-20 kHz. 8¼ x 4¼ x 6 in $80/pr

AMX-21 2-Way Powered Computer Speaker System
2 speakers, each with 4-in woofer and 2-in tweeter; 10-W amp. Bass-reflex design; magnetic shielding. RCA line inputs. Bass and volume controls on one speaker. FR 150 Hz-20 kHz; imp 4 ohms. White. 5 x 8⅛ x 5½ in; 3 lb $70

Model 40-1368 2-Way In-Wall/Ceiling Speaker
Two 6½-in polypropylene woofers and one silk-dome tweeter. Includes template and mounting hardware. Power handling 40 W rms, 80 W max; FR 50 Hz-20 kHz $70

Model 40-1365 2-Way In-Wall Speaker
5¼-in polypropylene woofer and 1-in Mylar-dome tweeter. Includes template and mounting hardware. Power handling 30 W rms; FR 60 Hz-20 kHz . . .$50

PRO-LS1 2-Way Minispeaker
Acoustic-suspension design with 3-in paper-cone woofer and ½-in ferrofluid-cooled polycarbonate tweeter. Magnetic shielding; wall mountable. Speaker-level spring-clip terminals. Power handling 100 W rms; FR 200 Hz-20 kHz; sens 87 dB; imp 8 ohms. Black or white finish. 5-yr warranty. 3¾ x 6⅜ x 3¾ in; 1 lb $50

STS 65 2-Way Bookshelf Speaker
6½-in woofer and 1-in tweeter. Power handling 45 W rms; FR 60 Hz-20 kHz. Black woodgrain vinyl finish $50

AMX-10 Powered Computer Speaker
2¼-in driver. Magnetic shielding; requires 4 C batteries. Volume, bass, treble, and power controls; LED on/off indicator. AC adapter optional. FR 150 Hz-20 kHz. 7¼ x 4¼ x 4 in $40/pr

Model 40-1367 2-Way Ceiling Speaker
5¼-in woofer and ⅞-in tweeter. Includes template and mounting hardware. Power handling 15 W rms; FR 60 Hz-20 kHz $40/pr

STS-50 2-Way Bookshelf Speaker
Acoustic-suspension design with 5-in long-throw woofer and 2½-in cone tweeter. Power handling 40 W rms; FR 90 Hz-20 kHz. Walnut vinyl finish. 6¾ x 11 x 5¼ in $40

AMX-18 Powered Computer Speaker
Acoustic-suspension design with 4-in driver; 0.75-W amp. Magnetic shielding; AC/DC or battery-powered. RCA inputs. Bass and volume controls. Includes mounting brackets and speaker wire. FR 160 Hz-12 kHz; imp 4 ohms. White. 3½ x 5⅛ x 3⅜ in $30/pr

AMX-5 Powered Speaker
4-in full-range driver. Plugs into stereo headphone minijack. Bass and treble controls; LED power indicator. FR 160 Hz-10 kHz. 6⅛ x 5¾ x 3⅛ in $30/pr

AMX-3 Powered Minispeaker
Acoustic-suspension design with 2¼-in driver; 1.5-W amp. AC/DC or battery-powered. RCA inputs. Bass and treble controls; LED power indicator. FR 500 Hz-12 kHz; imp 4 ohms. Black. 2½ x 4 x 2⅛ in $20/pr

XTS-40 Bookshelf Speaker
4-in driver. Magnetic shielding. Power handling 20 W rms; FR 150 Hz-18 kHz. Black woodgrain finish $20

OWI

Model 800 2-Way Outdoor Speaker
5¼-in polypropylene-coated woofer and 1-in soft-dome waveguide tweeter. Die-cast aluminum enclosure and grilles. Power handling 100 W max; crossover point 3.5 kHz; FR 100 Hz-22 kHz; sens 89 dB; imp 8 ohms. Black or white. 10 x 6 x 6¼ in; 12 lb $459/pr

Model 602 2-Way Outdoor Speaker
Two 5¼-in polypropylene-coated woofers and one 2½-in dome-cone-hybrid tweeter. Die-cast aluminum enclosure and grilles. Power handling 120 W max; crossover point 3.5 kHz; FR 70 Hz-20 kHz; sens 95 dB; imp 8 ohms. Black or white. 7 x 9 x 6 in; 7 lb $439/pr

Model 503-B 3-Way Outdoor Speaker
5¼-in polypropylene-coated woofer, 2-in Mylar tweeter, and 1-in Mylar tweeter. Die-cast aluminum enclosure and grilles. Power handling 120 W max; crossover point 6.5 kHz; FR 60 Hz-22 kHz; sens 93 dB; imp 8 ohms. Black, also available in cream (Model 503-C) or white (Model 503-W). 10 x 6¾ x 6 in; 7 lb $420/pr

Model 502-B 2-Way Outdoor Speaker
5¼-in polypropylene-coat woofer and 2-in Mylar tweeter. Die-cast aluminum enclosure and grilles. Power handling 120 W max; crossover point 6 kHz; FR 60 Hz-19 kHz; sens 93 dB; imp 8 ohms. Black, also available in cream (Model 502-C) or white (Model 502-W). 10 x 6¾ x 6 in; 7 lb $399/pr

Model 302 2-Way Outdoor Speaker
4-in polypropylene-coated woofer and 2-in dome-cone-hybrid tweeter. Die-cast aluminum enclosure and grilles. Includes mounting bracket. Power handling 80 W max; crossover point 3.5 kHz; FR 90 Hz-20 kHz; sens 92 dB; imp 8 ohms. Black or white. 7 x 4½ x 4 in; 5 lb $199/pr

Model 203 2-Way Outdoor Speaker
4-in polypropylene-coated woofer and 2½-in Mylar tweeter. Die-cast aluminum enclosure and grilles. Includes mounting bracket. Power handling 100 W max; crossover point variable from 6-9 Hz; FR 90 Hz-22 kHz; sens 92 dB; imp 8 ohms. Black, cream, or white. 7 x 4½ x 4 in; 6 lb $189/pr

Model 202 2-Way Outdoor Speaker
4-in polypropylene-coated woofer and 2-in Mylar tweeter. Die-cast aluminum enclosure and grilles. Includes mounting bracket. Power handling 80 W max; crossover point 6 kHz; FR 90 Hz-20 kHz; sens 92 dB; imp 8 ohms. Black, cream, or white. 7 x 4½ x 4 in; 5 lb $179

In-Wall Series
The following are white with rectangular frames.

IW-60 2-Way In-Wall Speaker
6¼-in polycarbonate-cone woofer with foam surround and 1-in textile-dome tweeter. Power handling 80 W max; FR 55 Hz-20 kHz; sens 89 dB; imp 8 ohms. Mounting area: 12 x 9 in. Mounting depth 3 in $160/pr

IW-50 2-Way In-Wall Speaker
5¼-in polycarbonate-cone woofer with foam surround and 1-in textile-dome tweeter. Power handling 60 W max; FR 60 Hz-20 kHz; sens 87 dB; imp 8 ohms. Mounting area: 11 x 7½ in. Mounting depth 3 in $130/pr

IWS-80 2-Way In-Wall Speaker
8-in woofer with dual voice coils. Power handling 150 W max; FR 35 Hz-180 kHz; sens 88 dB; imp 8 ohms. Mounting area: 14 x 10 in. Mounting depth 4 in $129

Bathroom/Shower/Kitchen Series
The following are white with square frames.

M5CX 2-Way In-Wall Speaker
5¼-in polypropylene woofer and 1-in polyester-film-cone tweeter. Power handling 40 W max; FR 50 Hz-20 kHz; sens 94 dB; imp 4 ohms. Mounting area: 6 x 6 in. Mounting depth 2 in $74

M4F In-Wall Speaker
4-in polypropylene driver. Stainless-steel grille and hardware. Power handling 30 W max; FR 70 Hz-18 kHz; sens 90 dB; imp 4 ohms. Mounting area: 5 x 5 in. Mounting depth 2 in $54

PANASONIC

RP-SP50 Powered Minispeaker
2-in driver; defeatable amp rated at 400 mW x 2. Pair join together for carrying $60/pr

RP-SP15 Minispeaker
2¼-in driver. Pair joins together for carrying. Power handling 400 mW max. 8-oz $19.95/pr

PARADIGM

Powered Sub Monitor Series

Monitor 90P 3-Way Powered Speaker
Bass-reflex design with two 8-in mineral-filled polypropylene woofers, one ferrofluid-cooled 6½-in injection-molded copolymer woofer, and one 1-in ferrofluid-cooled titanium-dome tweeter; amp rated at 140 W rms. Active hybrid system with die-cast woofer chassis; phase-coherent crossovers; high-current, discrete-output amp with oversized power supplies; magnetic shielding. Speaker-level input; subwoofer/LFE-channel input. Auto on/off; subwoofer level control. Crossover points 180 Hz and 2.0 kHz; FR 16 Hz-20 kHz ±2 dB; sens 92 dB; imp 8 ohms. Black ash, light cherry or dark cherry laminate. 3-yr warranty. 9¼ x 43½ x 14¼ in; 70 lb $1,649/pr
Monitor 70P. As above, two 6½-in woofers. Power handling 200 W; FR 23 Hz-20 kHz ±2 dB; crossover points 200 Hz and 2 kHz; sens 91 dB. 8¼ x 39 x 14¼ in; 55 lb $1,399/pr

Monitor Series
The following have built-in high-current amps, large magnet structures, die-cast chassis, and dual-cavity bass-shaping systems.

Monitor 90P 3-Way Speaker
Bass-reflex design with two 8-in mineral-filled polypropylene woofers, one 6½-in injection-molded copolymer polypropylene midrange, and one 1-in titanium-dome tweeter. Magnetic shielding. Speaker-level input; subwoofer input. Auto on/off; subwoofer-level control. Power handling 250 W; FR 18 Hz-20 kHz ±2 dB; sens 92 dB; imp 8 ohms. Black ash, light cherry, or dark cherry laminate. 3-yr warranty. 9¼ x 43½ x 14¼ in; 70 lb $1,499/pr
Monitor 70P. As above, two 6½-in mineral-filled polypropylene woofers. Power handling 200 W; crossover points 200 Hz and 2 kHz; FR 23 Hz-20 kHz ±2 dB; sens 91 dB. 8¼ x 39 x 14¼ in; 55 lb $1,199/pr

Monitor 9 2-Way Speaker
Bass-reflex design with two 8-in injection-molded copolymer polypropylene woofers and one 1-in titanium-dome tweeter. Biampable terminals. Power handling 200 W; crossover point 2.0 kHz; FR 32 Hz-20 kHz ±2 dB; sens 93 dB; imp 8 ohms. Black ash, light cherry, or dark cherry laminate. 5-yr warranty. 9¼ x 37 x 14¼ in; 48 lb $749/pr
Monitor 7. As above, two 6½-in injection-molded copolymer polypropylene midbass drivers. Power handling 175 W; FR 34 Hz-20 kHz ±2 dB; sens 92 dB; crossover point 1.8 kHz. Magnetic shielding optional. 8 x 34½ x 14¼ in; 43 lb $629/pr
Monitor 5. As above, one 6½-in injection-molded copolymer polypropylene midbass driver. Power handling 100 W; FR 32 Hz-20 kHz ±2 dB; sens 90 dB; crossover point 1.8 kHz. 7¾ x 33¼ x 11⅜ in; 62 lb $499/pr
Monitor 3. As above, one 8-in injection-molded copolymer-polypropylene midbass driver. Terminals not biampable. Power handling 150 W; FR 36 Hz-20 kHz ±2 dB; sens 89 dB. 9¼ x 20 x 11⅜ in; 24 lb $399/pr

ADP-350 2-Way Speaker
Two 6½-in injection-molded copolymer polypropylene woofers and two 1-in titanium-dome tweeters. 2-way optimized multiple-radiation pattern; reverberant surround. Includes ADP Series mounting kit. Power handling 175 W; crossover point 1.8 kHz; FR 55 Hz-20 kHz ±2 dB; sens 90 dB; imp 8 ohms. Black-graphite or white laminate. 5-yr warranty. 11⅜ x 13 x 8 in; 25 lb $699/pr

Mini Monitor 2-Way Bookshelf Speaker
Bass-reflex design with 6½-in injection-molded copolymer polypropylene woofer and 1-in titanium-dome tweeter. Magnetic shielding optional. Power handling 100 W; crossover point 1.8 kHz; FR 43 Hz-20 kHz ±2 dB; sens 89 dB; imp 8 ohms. Black ash, light cherry, or dark cherry laminate. 5-yr warranty. 8 x 13 x 10⅞ in; 15 lb $339/pr

CC-350 2-Way Center-Channel Speaker
Bass-reflex design with two 6½-in injection-molded copolymer polypropylene woofers, and one 1-in titanium-dome tweeter. Magnetic shielding. Power handling 175 W; crossover point 1.8 kHz; FR 50 Hz-20 kHz ±2 dB; sens 90 dB; imp 8 ohms. Black-graphite finish. 5-yr warranty. 22¾ x 7⅛ x 9¾ in; 25 lb $329
LCR-350 2-Way Speaker. As above, FR 45 Hz-20 kHz ±2 dB. Black ash laminate. 8 x 21 x 11⅜ in; 25 lb $299

Powered Subwoofer
The following have built-in high-current amps, large magnet structures, die-cast chassis, and dual-cavity bass-shaping systems. They carry a 3-year warranty.

PW-2500 Powered Subwoofer
Bass-reflex design with 15-in Kevlar-fiber composite cone driver with dual voice-coil and 2-in bifilar; amp rated at 250 W rms. Line- and speaker-level inputs. Auto on/off; subwoofer-level control. X-Series subwoofer control optional. Crossover point variable from 50-150 Hz; FR 16-150 Hz. Black ash, light cherry, or dark cherry laminate. 19 x 21¾ x 24 in; 80 lb $949

PS-2200 Powered Subwoofer
12-in mineral-filled copolymer polypropylene cone with dual voice-coil and 2-in bifilar; amp rated at 250 W rms. Line- and speaker-level inputs and outputs. Auto on/off; subwoofer-level control; phase control; subwoofer cut-off frequency. Remote control optional. Crossover point variable from 50-150 Hz; FR 18-150 Hz. Black ash, light cherry, or dark cherry. 16½ x 19¾ x 21⅝ in; 69 lb $799

PS-1200 Powered Subwoofer
12-in carbon-fiber composite cone driver with 2-in voice-coil; amp rated at 130 W rms. Line- and speaker-level inputs. Auto on/off; subwoofer-level control. X-series subwoofer control units optional. Crossover point variable from 50-150 Hz; FR 23-250 Hz. Black-ash laminate. 17¼ x 19¼ x 21½ in; 68 lb $559

PS-1000. As above, 10-in polypropylene-cone driver with 1½-in voice-coil. 80-Hz high-pass filter. FR 25-150 Hz. 16⅜ x 16¼ x 19¾ in; 58 lb . . .$499

PDR-12 Powered Subwoofer
Bass-reflex design with 12-in carbon-fiber composite cone driver with 2-in long-throw voice-coils; amp rated at 110 W rms. Highly damped cone/surround assembly. Line- and speaker-level inputs. Auto on and standby; subwoofer-level control. X-series subwoofer control units optional. Crossover point variable from 50-150 Hz; FR 25-150 Hz. Black ash, light-cherry, or dark-cherry laminate. 3-yr warranty. 14¼ x 16¼ x 19 in; 41 lb $419
PDR-10. As above, 10-in carbon-fiber composite-cone driver with 1½-in voice-coil; amp rated at 100 W rms. 13½ x 14¼ x 15 in; 33 lb $349
PDR-8. As above, 8-in carbon-fiber composite-driver with 1½-in extended voice-coil; amp rated at 90 W rms. FR 29-150 Hz. 12 x 12¾ x 15 in; 25 lb $279

In-Wall Series
The following have one-piece die-cast aluminum main housing/driver chassis, die-cast aluminum mounting brackets, ferrofluid-cooled tweeters, and paintable white-enamel finishes. They carry a 5-year warranty. Pre-install kit for new-home construction $49 a pair.

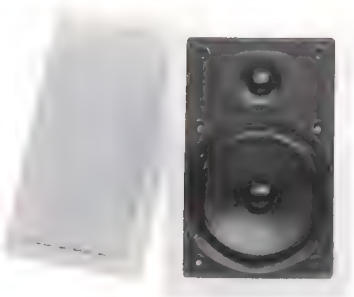
AMS-300 2-Way In-Wall Speaker
Acoustic-suspension design with 8-in mineral-filled polypropylene woofer and 1-in pure-aluminum-dome tweeter. Line-level input. Power handling 150 W; crossover point 1.5 kHz; FR 40 Hz-22 kHz ±2 dB; sens 90 dB; imp 8 ohms. Paintable white. Rectangular frame. Mounting area: 8⅜ x 12⅞ in. Mounting depth 3¼ in $479/pr
AMS-250. As above, one 6½-in mineral filled polypropylene midbass driver. Power handling 120 W; crossover point 1.7 kHz; FR 50 Hz-22 kHz ±2 dB. Mounting depth 3⅜ in. 7⅝ x 11⅛ x 3⅜ in; 12 lb $399/pr
AMS-200. As above, power handling 100 W; crossover point 2 kHz; FR 55 Hz-20 kHz ±2 dB. Mounting depth 3 in $299/pr

AMS-100R 2-Way In-Wall/Ceiling Speaker
Acoustic-suspension design with 6½-in mineral-filled polypropylene woofer and 1-in titanium-dome tweeter. Built-in heat sink. 1 pair input terminals. Power handling 100 W; crossover point 2.5 kHz; FR 55 Hz-20 kHz ±2 dB; sens 89 dB; imp 8 ohms. Ceiling white/paintable. Round frame. Mounting diameter 7¾ in. Mounting depth 4 in $299/pr

Performance Series
The following have die-cast woofer chassis, ferrofluid-cooled tweeters, and phase-coherent crossovers.

ADP-150 2-Way Speaker
Two 5½-in polypropylene woofers and two ¾-in polyamide-dome tweeters. Includes ADP Series mounting kit. Power handling 100 W; crossover point 3 kHz; FR 65 Hz-20 kHz ±2 dB; sens 89 dB; imp 8 ohms. Black graphite or white laminate. 5-yr warranty. 8¾ x 10½ x 6½ in; 16 lb $429/pr
ADP-170. As above, two ¾-in ferrofluid-cooled ceramic/metal-composite dome tweeters. 1 pair binding posts. Crossover point 2 kHz; FR 60 Hz-20 kHz. 9¾ x 10½ x 7 in; 17 lb $399/pr
ADP-100. As above, 2-way optimized multiple-radiation pattern; reverberant surround; two ⅝-in polymer-dome tweeters. Power handling 80 W; crossover point 3 kHz; FR 85 Hz-20 kHz ±2 dB; imp 8 ohms; sens 88 dB. 8¾ x 8½ x 6⅜ in; 12 lb $329/pr

Phantom 2-Way Speaker
Bass-reflex design with two 6½-in polypropylene woofers and one ¾-in ferrofluid-cooled ceramic/metal-composite dome tweeter. 1 pair binding posts. Power handling 160 W; FR 40 Hz-20 kHz ±2 dB; sens 90 dB; imp 8 ohms. Black ash, light cherry or dark cherry laminate. 5-yr warranty. 9¾ x 18¾ x 12⅛ in; 22 lb $399/pr



Paradigm AMS-200 in-wall speakers

Phantom 2-Way Bookshelf Speaker
Bass-reflex design with 8-in polypropylene woofer and ¾-in treated-textile-dome tweeter. Power handling 150 W; crossover point 2.5 kHz; FR 40 Hz-20 kHz ±2 dB; sens 90 dB; imp 8 ohms. Black ash, light cherry, or dark cherry laminate. 9¾ x 18¾ x 12⅛ in; 22 lb $309/pr

ADP-70 2-Way Speaker
Two 4½-in treated composite woofers and two ⅝-in ferrofluid-cooled polymer-dome tweeters. 1 pair binding posts. Includes ADP series mounting kit. Power handling 80 W; crossover point 3 kHz; FR 70 Hz-20 kHz; sens 89 dB; imp 8 ohms. Black graphite or white laminate. 5-yr warranty. 7¾ x 8½ x 5½ in; 12 lb $249/pr

Titan 2-Way Bookshelf Speaker
Bass-reflex design with 6½-in polypropylene woofer and ¾-in ferrofluid-cooled ceramic/metal-composite dome tweeter. 1 pair binding posts. Magnetic shielding optional. Power handling 100 W; crossover point 2 kHz; FR 50 Hz-20 kHz ±2 dB; sens 89 dB; imp 8 ohms. Black ash, light cherry, dark cherry, or white laminate. 5-yr warranty. 7¾ x 13 x 9¾ in; 12 lb $219/pr
Atom. As above, 5½-in polypropylene woofer. Power handling 80 W; crossover point 3 kHz; FR 55 Hz-20 kHz ±2 dB. 6½ x 10½ x 8½ in; 9 lb $179/pr

CC-170 2-Way Center-Channel Speaker
Bass-reflex design with two 5½-in polypropylene woofers and one ¾-in ferrofluid-cooled ceramic/metal-composite dome tweeter. Magnetic shielding. 1 pair binding posts. Power handling 120 W; crossover point 2.5 kHz; FR 46 Hz-20 kHz; sens 91 dB; imp 8 ohms. Black graphite. 5-yr warranty. 6½ x 22 x 8 in; 16 lb $199
CC-150. As above, ¾-in polyamide-dome tweeter. 6½ x 20¾ x 8½ in; 17 lb $199
CC-70. As above, two 4½-in treated composite woofers. Power handling 80 W; crossover point 3 kHz; FR 65 Hz-20 kHz ±2 dB; sens 89 dB. 14½ x 5¼ x 6¾ in; 16 lb $139

LCR-150 2-Way Speaker
Acoustic-suspension design with two 5½-in polypropylene woofers and one ¾-in polyamide-dome tweeter. Magnetic shielding. Power handling 120 W; crossover point 2.5 kHz; FR 46 Hz-20 kHz ±2 dB; sens 91 dB; imp 8 ohms. Black ash, light cherry, or dark cherry laminate. 5-yr warranty. 6¾ x 17⅜ x 11⅛ in; 19 lb $179

Micro 2-Way Bookshelf Speaker
Bass-reflex design with 4½-in treated composite woofer and ⅝-in ferrofluid-cooled polymer-dome tweeter. 1 pair binding posts. Power handling 60 W; crossover point 3 kHz; FR 60 Hz-20 kHz ±2.5 dB; sens 88 dB; imp 8 ohms. Black ash, light cherry, dark cherry, or white laminate. 5-yr warranty. 6 x 8½ x 7½ in; 12 lb $149/pr

CC-50 2-Way Center-Channel Speaker
Bass-reflex design with 5½-in polypropylene woofer and ¾-in polyamide-dome tweeter. Magnetic shielding. Power handling 80 W; crossover point 3 kHz; FR 50 Hz-20 kHz ±2 dB; sens 90 dB; imp 8 ohms. Black-graphite finish. 5-yr warranty. 17¾ x 5⅞ x 7⅜ in; 13 lb $139

Passive Subwoofer Series
The following have large magnet structures, oversized crossover inductors, dual-cavity bass-shaping enclosures, and black-oak laminate finishes. They carry a 5-year warranty.

SB-110 Subwoofer
10-in dual-voice-coil woofer. Power handling 250 W; crossover point 100 Hz; FR 31-100 Hz ±2 dB; sens 94 dB; imp 8 ohms. 16 x 15¾ x 20 in; 42 lb . . .$229

SB-90 Subwoofer
8-in polypropylene driver with dual voice-coils. 100-Hz high-pass filter. Power handling 150 W; crossover point 100 Hz; FR 39-100 Hz ±2 dB; sens 94 dB; imp 8 ohms. 12¾ x 15¾ x 16⅞ in; 31 lb $189

PARADIGM REFERENCE

AMS-450 2-Way In-Wall Speaker
Acoustic-suspension design with 8-in mica-loaded polymer woofer and 1-in ferrofluid-cooled aluminum-dome tweeter. Die-cast aluminum chassis. 1 pair input terminals. Includes mounting bracket. Pre-install kit for new home construction optional. Power handling 180 W; crossover point 1.7 kHz; FR 35 Hz-22 kHz ±2 dB; sens 90 dB; imp 8 ohms. Ceiling white/paintable. 5-yr warranty. Rectangular frame. Mounting area: 8⅜ x 12⅞ in. Mounting depth 3⅜ in $600/pr

LCR-450 2-Way Speaker
Acoustic-suspension design with two 6½-in mica-loaded polymer woofers and one 1-in ferrofluid-cooled aluminum-dome tweeter. Die-cast woofer chassis; phase-coherent crossovers; magnetic shielding. Gold-plated biampable binding posts. Power handling 175 W; crossover point 1.5 kHz; FR 45 Hz-22 kHz ±2 dB; sens 90 dB; imp 8 ohms. Dark-cherry, black ash or black gloss laminates. 5-yr warranty. 8 x 21¼ x 11½ in; 28 lb $450

Bipolar Series
The following have die-cast woofer chassis, ferrofluid-cooled tweeters, and phase-coherent crossovers. Available in light, dark, or black oak veneers or gloss-black finish.

Eclipse/BP 2-Way Bipolar Speaker
Bipolar design with two 8-in mica-loaded polymer woofers and two 1-in aluminum-dome tweeters. Biampable terminals. Power handling 300 W; crossover point 1.5 kHz; FR 18 Hz-22 kHz ±2 dB; sens 91 dB; imp 8 ohms. 5-yr warranty. 9¾ x 50⅛ x 17 in; 95 lb $1,900/pr
Esprit/BP. One 6½-in mica-loaded polymer woofer. Power handling 250 W; FR 23 Hz-22 kHz ±2 dB. 8½ x 45⅛ x 13¼ in; 64 lb $1,400/pr

Studio Series
The following have die-cast woofer chassis, ferrofluid-cooled tweeters, phase-coherent crossovers, gold-plated binding posts, and biampable terminals. They carry a 5-year warranty. Available in black ash or dark cherry laminate, and black ash, light cherry, or rosenut veneer.

Studio/100 3-Way Speaker
Bass-reflex design with two 8-in mineral-filled polypropylene woofers, one 6½-in mica-loaded polymer midrange and one 1-in aluminum-dome tweeter. Power handling 350 W; crossover points 250 Hz and 2 kHz; FR 25 Hz-22 kHz ±2 dB; sens 91 dB; imp 6 ohms. 10¼ x 45 x 16½ in; 87 lb . . .$1,800/pr
As above, in real wood veneer $2,250/pr

Studio/80 3-Way Speaker
Bass-reflex design with 8-in mineral-filled polypropylene woofer, 8-in mica-loaded polymer midrange, and 1-in aluminum-dome tweeter. Power handling 250 W; FR 27 Hz-22 kHz ±2 dB; sens 92 dB; imp 8 ohms. 10 x 41 x 15½ in; 72 lb .$1,400/pr
As above, in real wood veneer $1,800/pr

Studio/60 3-Way Speaker
Bass-reflex design with 6½-in mineral-filled polypropylene woofer, 6½-in mica-loaded polymer midrange, and 1-in aluminum-dome tweeter. Power handling 200 W; crossover points 400 Hz and 1.5 kHz; FR 30 Hz-22 kHz ±2 dB; sens 90 dB; imp 8 ohms. 8¼ x 37 x 14¾ in; 58 lb $1,100/pr
As above, in real wood veneer $1,450/pr

Studio/20 2-Way Bookshelf Speaker
6½-in mica-loaded polymer woofer and 1-in aluminum-dome tweeter. Power handling 150 W; FR 40 Hz-22 kHz ±2 dB; sens 89 dB; imp 8 ohms. 8¼ x 14 x 11 in; 29 lb $650/pr
As above, in real wood veneer $850/pr

Active Series
Active/20 2-Way Powered Bookshelf Speaker
Bass-reflex design with 6½-in mica-loaded polymer woofer and 1-in ferrofluid-cooled aluminum-dome tweeter; woofer amp rated at 110 W rms, tweeter 50 W rms. Fully active system with die-cast woofer chassis; electronic crossover; discrete amp output; auto on/off; thermal protection circuitry. Line-level RCA or XLR input. ±2 dB contour and ±4 dB low-frequency contour controls; 18 dB/oct crossover; auto on/off. Includes 23-ft line-level cable. Crossover point 1.5 kHz; FR 35 Hz-22 kHz ±1 dB. Black ash or gloss-cherry finish. 3-yr warranty. 8¼ x 14 x 11 in; 35 lb $1,600/pr
Active/450-ADP. As above, but with 2-way optimized multiple radiation pattern and reverberant surround. Crossover point 1.5 kHz; FR 44 Hz-20 kHz ±1 dB. Black-graphite finish. 13 x 14 x 9 in; 43 lb $1,850/pr
Active/450-LR. As above, critically-aligned sealed design. Magnetic shielding. Crossover point 1.5 kHz; FR 38 Hz-22 kHz ±1 dB. 8 x 21 x 11½ in; 22 lb $925
Active/450-C. Center-channel version. 21 x 8 x 11½ in; 22 lb $925

Servo-15 Powered Subwoofer
Acoustic-suspension design with 15-in Kevlar-fiber-reinforced-composite-cone woofer; amp rated at 400 W rms. Massive-magnet structure; die-cast chassis; instrumentation-grade accelerometer; Line-level input. Auto on/off and subwoofer level control. Includes X-Series subwoofer remote control. Crossover point variable from 50-150 Hz; FR 14 Hz-80 Hz ±2 dB. Black ash laminate, light cherry, or rosenut veneer. 3-yr warranty. 18 x 20 x 21¾ in; 78 lb $1,500
As above, laminated $1,750

Reference Surround/Center Channel Series
CC-450 2-Way Center-Channel Speaker
Bass-reflex design with two 6½-in mica-loaded polymer woofers and one 1-in ferrofluid-cooled aluminum-dome tweeter. Die-cast woofer chassis; phase-coherent crossovers; magnetic shielding. Gold-plated biampable binding posts. Power handling 175 W; crossover point 1.5 kHz; FR 45 Hz-22 Hz ±2 dB; sens 90 dB; imp 8 ohms. Black graphite. 5-yr warranty. 21¾ x 8⅜ x 11½ in; 28 lb $500
ADP-450. As above, 2-way optimized-multiple-radiation pattern with reverberant surround. Without biampable terminals or magnetic shielding. FR 50 Hz-20 kHz ±2 dB. Black-graphite or white laminate. 11½ x 14 x 9 in; 28 lb $900/pr

PARASOUND

C/ST-380A 3-Way In-Wall Speaker
8-in Kevlar woofer with polyurethane surround, 1½-in ferrofluid-cooled dome midrange, and 1-in ferrofluid-cooled titanium-dome tweeter. Midrange driver and tweeter mounted on separate pivoting assembly; 12 dB/oct crossover. Speaker-level inputs; gold-plated 5-way binding posts. Plug for infrared receiver. Includes mounting hardware and paint shield. Power handling 10 W min, 150 W max; FR 36 Hz-22 kHz ±3 dB; sens 89 dB; imp 8 ohms. White cabinet, white grille. 5-yr parts-and-labor warranty. Rectangular frame. Mounting area: 8¾ x 12⅞ in. Mounting depth 3½ in $750/pr

Parasound CS/S-260A in-wall speaker

C/ST-80R/S 2-Way In-Wall Speaker
8-in Kevlar woofer with polyurethane surround and pivoting 1-in ferrofluid-cooled titanium-dome tweeter. 12 dB/oct crossover. Speaker-level inputs. Easy-to-install frame. Includes mounting hardware. Square grille optional. Power handling 10 W min, 70 W max; crossover point 2.6 kHz; FR 55 Hz-22 kHz ±3 dB; sens 89 dB; imp 8 ohms. White bezel, white grille. 5-yr limited parts-and-labor warranty. Round frame. Mounting diameter 9⅝ in. Mounting depth 3½ in $429/pr

Nomad Nine 2-Way Outdoor Speaker
Acoustic-suspension design with 5¼-in carbon-fiber polycarbonate woofer with polycarbonate surround and 1-in ferrofluid-cooled titanium-dome tweeter. Weather resistant; resonant-free cabinet; stainless steel grille; 12 dB/oct crossover. Speaker-level inputs; gold-plated 5-way binding posts. Includes mounting brackets. Power handling 10 W min, 100 W max; crossover point 2.2 kHz; FR 44 Hz-20 kHz ±3 dB; sens 88 dB; imp 8 ohms. White cabinet, black grille. 5-yr parts-and-labor warranty. 7½ x 11¼ x 6½ in; 7 lb $425/pr
Nomad Eight. As above, power handling: 10 W min, 80 W max; crossover point 2.6 kHz; FR 50 Hz-20 kHz ±3 dB $349/pr
Nomad seven. As above, power handling 10 W min, 70 W max; crossover point at 2.2 kHz; FR 58 Hz- 20 kHz ±3 dB; Sens 87 dB. 5½ x 8½ x 5½ in; 5 lb $229/pr

Outdoor Speakers
The following have carbon-fiber reinforced polycarbon-cone woofers, stainless-steel grilles and speaker terminals, and white or black finishes.

Nomad Ten 2-Way Outdoor Speaker
6½-in polycarbonate woofer and 1-in ferrofluid-cooled supronyl soft-dome tweeter. 12-dB/oct crossover. Power handling 10 W min, 120 W max; FR 36 Hz-20 kHz ±2.5 dB; sens 89 dB; imp 8 ohms $499/pr

Nomad Six 2-Way Outdoor Speaker
5¼-in woofer and 1-in ferrofluid-damped soft-dome tweeter. 12-dB/oct crossover. Power handling 80 W rms; FR 48 Hz-20 kHz ±2.5 dB; sens 88 dB; imp 8 ohms $360/pr
Nomad Four. As above, 4-in woofer. Power handling 60 W rms; crossover point 2.6 kHz; FR 65 Hz-20 kHz ±3 dB; sens 86 dB $165/pr

Nomad Five 2-Way Outdoor Speaker
5¼-in woofer and 2-in cone tweeter. 12-dB/oct crossover. Power handling 70 W rms; crossover point 3.3 kHz; FR 55 Hz-20 kHz ±4 dB; sens 88 dB; imp 8 ohms $280/pr

Nomad Three 2-Way Outdoor Speaker
4-in woofer and 1-in cone tweeter. 6-dB/oct crossover. Power handling 40 W rms; crossover point 3 kHz; FR 75 Hz-18 kHz ±4 dB; sens 86 dB; imp 8 ohms $120/pr

In-Wall Speakers
CS/T-280A 2-Way In-Wall Speaker
8-in woofer and 1-in ferrofluid-damped titanium-dome tweeter. 9-element 12-dB/oct crossover. 3-position tweeter-level control; baffle hole for infrared eye. Power handling 100 W; FR 36 Hz-22 kHz ±3 dB; sens 89 dB; imp 8 ohms $485/pr
Wise 8.0. Sealed in-wall MDF speaker enclosure for above. Includes mounting bracket and hardware. 14¼ x 40 x 3⅜ in $65
NC/K-8M. New-construction rough-in installation kit $58/pr

CS/T-265A 2-Way In-Wall Speaker
6½-in woofer and 1-in ferrofluid-damped titanium-dome tweeter. 7-element 12-dB/oct crossover. 3-position tweeter-level control; baffle hole for infrared eye. Power handling 75 W rms; FR 42 Hz-22 kHz ±3 dB; sens 88 dB; imp 8 ohms $365/pr
Wise 6.5. Sealed MDF in-wall speaker enclosure for above. Includes mounting bracket and hardware. 14¼ x 30 x 3⅜ in $65
NC/K-6M. New-construction kit $54/pr

CS/W-1002 In-Wall Subwoofer
10-in dual-voice-coil woofer. 12-dB/oct low-pass filter at 140 Hz; 6-dB/oct high-pass filter. Satellite output. Power handling 120 W; FR 26-180 Hz ±3 dB; sens 89 dB; imp 8 ohms. Round frame. Mounting diameter: 10¾ in. Mounting depth 2 in ...$279

CS/T-255A 2-Way In-Wall Speaker
5¼-in woofer and 1-in titanium-dome tweeter. 7-element 12-dB/oct crossover. 3-position level control; baffle mounting for infrared eye. Power handling 75 W rms; crossover point 2.6 kHz; FR 54 Hz-22 kHz ±3 dB; sens 87 dB; imp 8 ohms ...$265/pr
WISE 5.5. Sealed MDF in-wall speaker enclosure for above. Includes mounting bracket and hardware. 14¼ x 30 x 3⅜ in $65
NC/K-5M. New-construction kit $50/pr

CS/S-260A 2-Way In-Wall Speaker
6½-in woofer and 1-in soft-dome tweeter. Power handling 40 W rms; FR 46 Hz-20 kHz ±3 dB; sens 88 dB; imp 8 ohms $249/pr

CS/T-65R 2-Way Ceiling Speaker
6½-in woofer and 1-in titanium tweeter. 12-dB/oct crossover. Power handling 60 W; FR 58 Hz-20 kHz ±3 dB; sens 88 dB; imp 8 ohms $249/pr
As above, 8-in woofer. Frequency response 55 Hz-20 kHz ±3 dB $429/pr

CW/W-8 In-Wall Subwoofer
8-in dual-voice-coil woofer. 12-dB/oct low-pass filter at 140 Hz; 6-dB/oct high-pass filter. Power handling 120 W rms; FR 33-180 Hz ±3 dB; sens 87 dB; imp 8 ohms $199
WISE 8.0. Sealed in-wall MDF speaker enclosure for above. Includes mounting bracket and hardware. 14¼ x 40 x 3⅜ in $65
NC/K-8M. New-construction kit $58/pr

CS/S-250A 2-Way In-Wall Speaker
5¼-in woofer and 1-in polycarbonate-dome tweeter. 6-dB/oct crossover. Power handling 40 W rms; crossover point 3.3 kHz; FR 70 Hz-20 kHz ±3 dB; sens 86 dB; imp 8 ohms $149/pr
WISE 5.5. Sealed MDF in-wall speaker enclosure for above. Includes mounting bracket and hardware. 14¼ x 30 x 3⅜ in $65
NC/K-5M. New-construction kit $50/pr

CS/S-60R 2-Way Ceiling Speaker
6½-in full-range driver. Power handling 10 W min, 40 W max; FR 60 Hz-18 kHz ±3 dB; sens 87 dB; imp 8 ohms $139/pr

PEGASUS AUDIO

The following are available in kit form. Contact the manufacturer for information.

RockMaster 3 2-Way Speaker
Bass-reflex design with 15-in woofer and 4 x 11-in

horn tweeter. 18-dB/oct high-pass filter. Crossover point 3.5 kHz; FR 46 Hz-20 kHz ±3 dB; sens 89 dB; imp 6 ohms. 32 x 20 x 13 in; 79 lb $2,400/pr

Beta 2-Way Bookshelf Speaker
Bass-reflex design with 6½-in woofer and ¾-in polymide dome tweeter. Nickel-plated brass 5-way binding posts with banana jacks. Power handling 15 W min, 150 W max; crossover point 4.5 kHz; FR 74 Hz-20 kHz ±3 dB; sens 88 dB; imp 4. Black ash or white crystal laminate. 7¾ x 11¾ x 9 in; 17 lb $1,500/pr

Gemini 2-Way Speaker
Composite-vented design with two 6½-in woofers and one 1-in aluminum-honeycomb tweeter. Isobaric driver configuration. Nickel-plated spring terminals. Power handling 25 W min, 250 W max; crossover point 5.5 kHz; FR 35 Hz-20 kHz ±3 dB; sens 89 dB; imp 6 ohms. Black ash, cherry or oak laminate finish. 9¾ x 39 x 9¾ in; 45 lb . . .$1,500/pr

Quartet Subwoofer/Satellite System
4-speaker system featuring two subwoofers, each with 6½-in driver; two satellites, each with 4½-in woofer and ¾-in dome tweeter. Crossover points 150 Hz and 5 kHz; FR 46 Hz-20 kHz ±3 dB system; sens 92 dB; imp 8 ohms $1,299

Lambda 1A 2-Way Bookshelf Speaker
Bass-reflex design with 6½-in polymer woofer and ¾-in ferrofluid-cooled polyimide-dome tweeter. 21-mm-thick Medite- and plastic-laminate enclosure; monolithic baffle/brace; 6-dB/oct high-pass filter. Gold-plated brass 5-way binding posts and banana jacks. Power handling 15 W min, 75 W max; FR 45 Hz-20 kHz ±3 dB; sens 88 dB; imp 6 ohms. English oak or matte black laminate. 8⅝ x 16⅝ x 10⅝ in; 20 lb $850/pr

Apollo Subwoofer
Bass-reflex design with two 10-in woofers. Isobaric driver configuration. FR 29-200 Hz ±3 dB; sens 90 dB; imp 4 ohms. 36 x 14 x 14 in; 65 lb $675

Alpha III 2-Way Bookshelf Speaker
Bass-reflex design with 6½-in woofer and ¾-in dome tweeter. 6-dB/oct low-pass crossover. Gold-plated brass 5-way binding posts and banana jacks. Power handling 15 W min, 125 W max; crossover point 5.5 kHz; FR 50 Hz-20 kHz ±3 dB; sens 89 dB; imp 8 ohms. 12 x 20 x 8½ in; 28 lb $600/pr

Athena Subwoofer
Bass-reflex design with 8-in woofer. FR 35-200 Hz ±3 dB; sens 87 dB; imp 8 ohms. 39 x 10 x 10 in $500

P.E.L. CONCEPT

ENZ0 2-Way Speaker
Bass-reflex design with two 6½-in carbon-loaded polypropylene woofers and 1-in soft-dome tweeter. MDF cabinet. Includes spikes and floor stand. Sens 89 dB; imp 6 ohms. Black ash, beech, or yew. 8¾ x 42¼ x 10¾ in; 55 lb $1,600/pr
Classic. As above, no internal baffle. Power handling 100 W. 51 lb $1,200/pr
ENGY. As above with internal baffle. One 6½-in carbon-loaded polypropylene woofer and ¾-in metal-dome tweeter. Black ash or beech. 8¼ x 35 x 9½ in; 35 lb $720/pr

Prima 2-Way Bookshelf Speaker
Bass-reflex design with 6½-in carbon-loaded polypropylene woofer and ¾-in metal-dome tweeter. MDF cabinet with internal baffle and internal acoustic filter. Includes spikes. Power handling 75 W; sens 89 dB; imp 8 ohms. Black ash. 8¾ x 14 x 10 in; 18 lb $500/pr

PFANTONE

CH-27PR8 Deluxe 3-Way Speaker
8-in woofer, carbon-cone midrange, and 1-in soft-dome tweeter. Power handling 80 W; crossover point 3 kHz; FR 35 Hz-220 kHz; imp 8 ohms. White. 14 x 10 x 4 in $350/pr

CH-27PR6 3-Way In-Wall Speaker
6½-in woofer, carbon-cone midrange, and 1-in soft-dome tweeter. Power handling 50 W; crossover point 2.2 kHz; FR 40 Hz-220 kHz; imp 8 ohms. White. 12 x 9 x 4 in $300/pr
CH-27PR5. As above, 5¼-in woofer. Crossover point 2 kHz. 11 x 8 x 3 in $200/pr

PHASE TECHNOLOGY

The following carry a 5-year warranty.

Model 7T 2-Way Speaker
8-in polypropylene woofer and 1-in soft-dome tweeter. Power handling 120 W; FR 40 Hz-20 kHz; sens 90 dB; imp 8 ohms. High-gloss piano-black top and base. 10 x 36½ x 12 in; 51 lb $300

Home Theater Series
Model 7T Home Theater System. Octave Power 12 powered subwoofer, Teatro Center center-channel speaker, two 7-T speakers, and two DS T surround speakers $3,450
PC-2 Home Theater System. Octave 1.0 powered subwoofer, 2 PC-2 speakers, 1 PC-3 speaker, and 2 PC-Surround dipolar speakers $2,950
PC-3 Home Theater System. Octave 1.0 powered subwoofer and 5 PC-3 speakers $1,650
Model 2.5T Home Theater System. Octave Power 10 powered subwoofer, Teatro Center center-channel speaker, 2 Teatro 2.5 speakers, and 2 DST surround speakers $1,050

Octave Series
The following have a phase switch, auto turn-on, line- and speaker-level inputs, and speaker-level outputs.

Octave 1.0 Powered Subwoofer
15-in mineral-filled polypropylene-cone woofer; amp rated at 240 W. Servo amp; 24-dB/oct selectable active crossover. Level control. Black laminate finish with solid cherry or dark oak top. 18 x 21 x 20 in $1,000
As above, solid black oak top $950

Phase Technology Teatro 5.5

Octave Power 12 Powered Subwoofer
12-in felted-stock cone woofer; amp rated at 125 W. Servo amp; 18-dB/oct variable crossover; 6-dB/oct high-pass crossover. Black laminate finish. 19 x 16½ x 17½ in $600

Octave Power 10 Powered Subwoofer
10-in felted-stock cone woofer; amp rated at 100 W. 18-dB/oct variable crossover; 6-dB/oct high-pass crossover. Black oak laminate finish. 15¾ x 14½ x 15 in $400

CI Series
CI-100 3-Way In-Wall Speaker
6½-in solid-piston woofer with rubber surround, 6½-in Kevlar-laminated solid-piston woofer/mid-range with rubber surround, and 1-in variable-axis ferrofluid-cooled soft-dome tweeter. Unicell acoustic treatment. Power handling 125 W; FR 32 Hz-22 kHz; imp 8 ohms. Rectangular frame. Mounting area 21½ X 10 in. Mounting depth 3¾ in $850/pr

CI-60 V 2-Way In-Wall Speaker
6½-in solid-piston woofer with rubber surround and 1-in variable axis ferrofluid-cooled soft-dome tweeter. Auto-resetting thermal circuit breaker. 5-way binding posts. Power handling 80 W; FR 40 Hz-20 kHz; imp 8 ohms. Rectangular frame. Mounting area 12 X 8⅜ in. Mounting depth 3½ in $500/pr

CI-40 V 2-Way In-Wall Speaker
6½-in polypropylene woofer with rubber surround and 1-in variable-axis ferrofluid-cooled soft-dome tweeter. Overload-protection mechanism. 5-way binding posts. Power handling 70 W; FR 45 Hz-20 kHz; imp 8 ohms. Rectangular frame. Mounting area 12 X 8⅜ in. Mounting depth 3⅜ in . . .$400/pr
CI-20 V. As above, ¾-in ferrofluid-cooled dome tweeter. Power handling 60 W; FR 50 Hz-20 kHz. Mounting depth 3¼ in $300/pr
CI-10 V. As above, 5¼-in polypropylene woofer with rubber surround. Power handling 50 W; FR 55 Hz-20 kHz. Mounting depth 3⅛ in $220/pr

CI-6FL 2-Way Ceiling Speaker
6½-in polypropylene woofer with rubber surround and ¾-in variable-axis soft-dome tweeter. Power handling 100 W; FR 42 Hz-20 kHz; sens 90 dB; imp 8 ohms. Round frame. Mounting diameter 7⅛ in. Mounting depth 4 in $150

CI-4-REC-C 2-Way Ceiling Speaker
Coaxial design with 5¼-in polypropylene woofer with rubber surround and ¾-in dome tweeter enclosed in mounting assembly. Overload-protection mechanism. Quick-connect wire spring terminals. Power handling 40 W; FR 70 Hz-20 kHz; sens 91 dB; imp 8 ohms. Round enclosure that simulates standard ceiling recessed light housing. Round frame. Mounting diameter 6½ in. Mounting depth 4 in $100
CI-2-FL-C. As above, resembles flood light . . .$90

CI-5 DV Ceiling Speaker
5½-in polypropylene woofer with rubber surround. Power handling 60 W; FR 68 Hz-18 kHz; sens 88 dB; imp 4, 8, or 16 ohms. Round frame. Mounting diameter 6½ in. Mounting depth 3⅛ in $95

PC Series
PC-2 2-Way Speaker
6½-in RPF Kevlar-laminated solid-piston woofer with rubber surround and 1-in ferrofluid-cooled variable-axis soft-dome tweeter. Unicell acoustic treatment; magnetic shielding. Power handling 20 W min; FR 40 Hz-22 kHz; sens 91 dB; imp 6 ohms. Dark oak or black oak wood veneer. 8¼ x 17 x 11¾ in $750/pr

PC Surround 3-Way Bipolar/Dipolar Speaker
Switchable bipolar/dipolar design with one 6½-in RPF solid-piston woofer with rubber surround, two 4-in polypropylene midranges with rubber surrounds, and two 1-in ferrofluid-cooled soft-dome tweeters. Power handling 20 W min; FR 55 Hz-20

kHz; sens 89 dB; imp 6 ohms. Textured black or white laminate top and base with matching grille cloth. 14¾ x 14¾ x 6 in $700/pr

PC-1 2-Way Speaker
6½-in RPF solid-piston woofer with rubber surround and 1-in ferrofluid-cooled soft-dome tweeter. Magnetic shielding. Power handling 20 W min; FR 48 Hz-22 kHz; sens 89 dB; imp 6 ohms. Dark oak or black oak wood veneer finish. 8¼ x 13¼ x 11¾ in $550/pr

PC-3 2-Way Speaker
Two 6½-in solid-piston woofers with rubber surround and one 1-in variable-axis ferrofluid-cooled soft-dome tweeter. Proprietary acoustic treatment. Magnetic shielding. Power handling 20 W min; FR 38 Hz-22 kHz; sens 93 dB; imp 6 ohms. Dark oak or black oak wood veneer. 22 x 8¼ x 12 in ...$500

PC-Center Channel II 2-Way Center-Channel Speaker
Two 5¼-in solid-piston woofers and one 1-in ferrofluid-cooled soft-dome tweeter. Magnetic shielding. Power handling 15 W min; FR 75 Hz-22 kHz; sens 90 dB; imp 8 ohms. Black-laminate $300

Teatro Series
Teatro Tower 10 3-Way Speaker/ Powered Subwoofer
Built-in powered subwoofer with 10-in driver and 75-W amp; speaker section with 5¼-in polypropylene-cone woofer/midrange with rubber surround and one 1-in soft-dome tweeter. FR 30 Hz-20 kHz; sens 91 dB; imp 8 ohms. Black fabric finish with piano-black high-gloss top and base. 7½ x 40¼ x 13½ in; 50 lb $500

Teatro 5.5 2-Way Speaker
6½-in polypropylene woofer with rubber surround and 1-in soft-dome tweeter. Power handling 100 W; FR 42 Hz-20 kHz; sens 90 dB; imp 8 ohms. Black wood-grain laminate. 8 x 33 x 11 in; 32 lb $200

Teatro Center 2-Way Center Speaker
5¼-in polypropylene woofer with rubber surround, 5¼-in bass radiator, and 1-in soft-dome tweeter. Power handling 100 W; FR 60 Hz-20 kHz; sens 90 dB; imp 8 ohms. Black laminate. 20 x 6¼ x 7½ in; 17 lb $200

Teatro 3.5 2-Way Speaker
6½-in polypropylene woofer with rubber surround and 1-in soft-dome tweeter. Power handling 90 W; FR 50 Hz-20 kHz; sens 90 dB; imp 8 ohms. Black woodgrain laminate. 8 x 15½ x 8½ in; 13 lb ...$150

DS T Ambient 2-Way Surround Speaker
One 5¼-in polypropylene woofer with rubber surround and two ¾-in dome tweeters. Power handling 75 W; FR 80 Hz-20 kHz; sens 90 dB; imp 8 ohms. Textured black or textured white laminate top and base with matching grille cloth. 10¾ x 9¼ x 4 in; 7 lb $125

Teatro 2.5 2-Way Speaker
5½-in polypropylene woofer with rubber surround and 1-in soft dome-tweeter. Power handling 75 W; FR 55 Hz-22 kHz; sens 89 dB; imp 8 ohms. Black woodgrain laminate or textured white laminate with matching grille cloth. 6½ x 10½ x 8 in; 9 lb ...$100

T Series
DS T 2-Way Surround Speaker
5¼-in polypropylene woofer with rubber surround and two ¾-in ferrofluid-cooled dome tweeters. Power handling 75 W; FR 80 Hz-20 kHz; sens 90 dB; imp 8 ohms. Textured black or white with matching grille cloth. 9½ x 10 x 4 in $250/pr

PHILIPS MAGNAVOX

FB201 Powered Subwoofer
Tuned-port design with 6-in down-firing driver; amp rated at 50 W rms. Level control. Black. 9⅜ x 12¼ x 16 in; 20 lb $130

PHYZICS

The following have cylindrical-polymer cabinets with internal bracing and resonance-damping treatments, Acousto Servo systems for enhanced bass production, and floor spikes. The cabinets are covered with beige or black cloth with honey-oak or black lacquer-hardwood accents; custom finishes are available.

Illusion FS 3-Way Speaker
Acoustic servo design with 6-in polypropylene-mica woofer, 6-in polypropylene midrange, and 1-in aluminum-dome tweeter with 1/4 wave-tuned enclosure; all drivers phase aligned. Antiresonant 3-layer front baffle; 1st-incident reflection imaging system; hard-wired graduated slope crossover with impedance correction. Power handling 150 W; FR 46 Hz-21 kHz; sens 87 dB; imp 4 ohms. 48 lb $2,300/pr

Illusion M 2-Way Speaker
Acoustic servo design with two 4-in polypropylene woofer and one 1-in aluminum-dome tweeter with 1/4 wave-tuned enclosure. FR 55 Hz-21 kHz; sens 86 dB; imp 4 ohms. 32 lb $1,300/pr

The Ritz Series
The following are designed for home theater use and have magnetic shielding, phase-aligned crossovers, and proprietary grille assemblies to enhance imaging. All are available in free-standing or wall-mount versions.

RSB1 Powered Subwoofer
Dual-chamber bass-reflex design with two 8-in long-throw polypropylene woofers in horizontally opposed configuration to reduce THD; 120-W amp. Variable cutoff and standby circuitry. Speaker- and line-level inputs. Available as floor standing tower or concealed version for in-floor or in-wall mounting. FR 28-100 Hz; imp 4 ohms $900

RC1 2-Way Center-Channel Speaker
Bass-reflex design with one 6-in polypropylene woofer and two 1-in chambered aluminum-cone tweeters. Includes swivel mounts. Power handling 125 W; FR 63 Hz-21 kHz; sens 87 dB; imp 4 ohms $500

RM1 2-Way Center-Channel Speaker
Bass-reflex design with 6-in polypropylene-mica woofer and 1-in chambered aluminum tweeter. Power handling 125 W; FR 50 Hz-21 kHz; sens 87 dB; imp 4 ohms $450

R2 2-Way Speaker
Acoustic-suspension design with 6-in polypropylene woofer and 1-in chambered aluminum-dome tweeter. Power handling 100 W; FR 60 Hz-21 kHz; sens 86 dB; imp 8 ohms $275

R2 IW 2-Way In-Wall Speaker
6-in polypropylene woofer and 1-in chambered aluminum-dome tweeter. Aluminum baffle plate. Power handling 100 W; FR 50 Hz-21 kHz; sens 87 dB; imp 8 ohms. Rectangular frame. Mounting area: 14 x 9 in $275

RR1 2-Way Minispeaker
Bass-reflex design with 4-in polypropylene woofer and ¾-in Mylar tweeter. Power handling 50 W; FR 75 Hz-19 kHz; sens 86 dB; imp 8 ohms $150

PINNACLE

Classic Gold Series
The following can be used as front or surround-channel speakers in home theaters or music systems. All have patented Diaduct port technology and 10-year warranties.

Classic Gold Aerogel 3-Way Speaker
Two 8-in fiber-cone woofers, 5¼-in midrange, and 1-in liquid-cooled gold-Aerogel-dome tweeter. Magnetic shielding. Power handling 175 W rms; crossover points 500 Hz and 5 kHz; FR 26 Hz-21 kHz; sens 95 dB; imp 8 ohms. 9⅝ x 43⅞ x 15¼ in $1,695/pr

Classic Gold Tower 3-Way Speaker
Built-in subwoofer with 8-in fiber-cone driver; 8-in fiber-cone woofer; 1-in liquid-cooled gold-dome tweeter. Magnetic shielding. Power handling 150 W rms; crossover point 150 Hz and 2 kHz; FR 27 Hz-21 kHz; sens 95 dB; imp 8 ohms. 9⅝ x 37⅞ x 15¼ in $1,095/pr

Classic Gold Reference 2-Way Speaker
Two 6½-in fiber-cone woofers and one 1-in liquid-cooled gold-dome tweeter. Magnetic shielding. Power handling 125 W rms; crossover point 2.5 kHz; FR 29 Hz-21 kHz; sens 92 dB; imp 8 ohms. 8⅜ x 33 x 13¼ in $895/pr

Classic Gold Monitor 2-Way Bookshelf Speaker
8-in fiber-cone woofer and 1-in liquid-cooled gold-dome tweeter. Power handling 100 W rms; crossover point 2.2 kHz; FR 35 Hz-21 kHz; sens 93 dB; imp 8 ohms. 11 x 18¾ x 10⅝ in $525/pr

Classic Gold Mini-Monitor 2-Way Bookshelf Speaker
5¼-in fiber-cone woofer and 1-in liquid-cooled gold-dome tweeter. Power handling 75 W rms; crossover point 2 kHz; FR 45 Hz-21 kHz; sens 92 dB; imp 8 ohms. 8⅜ x 13 x 7⅛ in $395/pr

Powered Subwoofer Series
The following have high-powered, high-efficiency amplifiers that run cool to allow the use of compact cabinets.

Digital Sub 350 Powered Subwoofer
Compound-compression design with two 12-in woofers with 2-in voice coils, 40-oz magnets, rubber surrounds and polypropylene cones; amp rated at 350 W rms. Gold-plated binding posts; line-level inputs. Crossover point variable from 50-150 Hz; FR 22-150 Hz –3 dB. 14 x 15 x 15 in ...$1,195

Baby Boomer Powered Subwoofer
Bipolar acoustic-suspension design with two 8-in polypropylene-cone drivers, each with 2-in voice coil, 20-oz magnet, and foam surround; 600-W amp. Line-level input; gold-plated binding posts. Crossover point adjustable from 50-150 Hz; FR 25-150 Hz –3 dB. 9⅞ x 9⅞ x 9⅞ in $895

Digital Sub 250 Powered Subwoofer
Acoustic-suspension design with 12-in polypropylene woofer with 2-in voice-coil, 40-oz magnet and rubber surround; amp rated at 250 W rms. Gold-plated binding posts; line-level inputs. Crossover point variable from 50-150 Hz; FR 25-150 Hz –3 dB. 14 x 15 x 15 in $850

Digital Sub 150 Powered Subwoofer
Acoustic-suspension design with 12-in polypropylene woofer with 1½-in voice-coil, 20-oz magnet and foam surround; 150-W amp. Line- and speaker-level inputs. Crossover point variable from 75-180 Hz; FR 30-180 Hz –3 dB. 14 x 15 x 15 in $595

Center-Channel Series
The following have magentic shielding.

Classic Gold 2-Way Center-Channel Speaker
Four 5¼-in fiber-cone drivers and one 1-in liquid-cooled gold-dome tweeter. Power handling 500 W max; crossover point 4 kHz; FR 80 Hz-21 kHz; sens 91 dB; imp 8 ohms. 31 x 7 x 8¾ in $550

Widescreen 2-Way Center-Channel Speaker
Four 4-in wide-band drivers and one 1-in liquid-cooled soft-dome tweeter. Power handling 300 W max; crossover point 4 kHz; FR 90 Hz-20 kHz; sens 90 dB; imp 8 ohms. 25¾ x 6 x 5¾ in $325

AC 2-Way Center-Channel Speaker
Two 4-in wide-band drivers and one 1-in liquid-cooled soft-dome tweeter. Power handling 100 W

rms; crossover point 4 kHz; FR 100 Hz-20 kHz; sens 90 dB; imp 8 ohms. 17 x 6 x 5¾ in $209

In-Wall Speaker Series
The following are white with rectangular frames and include mounting hardware.

PM8000 2-Way In-Wall Speaker
8-in polypropylene-cone woofer and ½-in liquid-cooled titanium pivot-mount tweeter. Power handling 125 W rms; FR 40 Hz-20 kHz; sens 93 dB; imp 8 ohms. Mounting area: 10⅛ x 14⅛ in $495/pr

PM6000 2-Way In-Wall Speaker
6½-in polypropylene-cone woofer and ½-in liquid-cooled titanium pivot-mount tweeter. Power handling 100 W rms; FR 50 Hz-20 kHz; sens 91 dB; imp 8 ohms. Mounting area: 8¾ x 12⅛ in $375/pr

INW500 2-Way In-Wall Speaker
5¼-in polypropylene-cone woofer and 1-in liquid-cooled soft-dome tweeter. Power handling 75 W rms; FR 60 Hz-20 kHz; sens 88 dB; imp 8 ohms. Mounting area: 7⅛ x 11 in $225/pr

Audio Cinema Series
AC-3000 2-Way Bookshelf Speaker
4-in fiber-cone woofer and ¾-in liquid-cooled soft-dome tweeter. Magnetic shielding. Overload protection. Power handling 50 W rms; crossover point 5.5 kHz; FR 60 Hz-21 kHz; sens 90 dB; imp 8 ohms. 6 x 9¾ x 6⅝ in $359/pr

AC-650 2-Way Bookshelf Speaker
6½-in fiber-cone woofer and ¾-in liquid-cooled soft-dome tweeter. Power handling 85 W rms; crossover point 2.5 kHz; FR 40 Hz-21 kHz; sens 91 dB; imp 8 ohms. 9⅜ x 16⅝ x 8¾ in $349/pr

AC-500 2-Way Bookshelf Speaker
5¼-in fiber-cone woofer and ¾-in liquid-cooled dome tweeter. Magnetic shielding. Power handling 70 W rms; crossover point 5 kHz; FR 50 Hz-21 kHz; sens 90 dB; imp 8 ohms. 8⅝ x 11⅜ x 6⅞ in $250/pr

AC-400 2-Way Bookshelf Speaker
4-in fiber-cone woofer and ¾-in liquid-cooled dome tweeter. Magnetic shielding. Power handling 50 W rms; crossover point 5.5 kHz; FR 60 Hz-21 kHz; sens 88 dB; imp 8 ohms. 6 x 9¼ x 7 in $199/pr

AC-300 2-Way Outdoor Speaker
4-in polypropylene-cone woofer and ½-in liquid-cooled dome tweeter. Weather-resistant enclosure. Includes mounting bracket. Power handling 40 W; FR 100 Hz-16 kHz; sens 87 dB; imp 8 ohms. 4½ x 7¼ x 4⅜ in $175/pr

PIONEER

Linear Power Response (LPR) refers to a proprietary sealed/no-surround driver technology designed to increase bass response and sound levels from small speakers with less distortion.

S-W200 LPR Powered Subwoofer
Bass-reflex design with two 5⅞-in LPR woofers; 200-W amp. Magnetic shielding. Line- and speaker-level inputs. Level control; phase-reverse switch. Includes speaker wire and RCA cables. FR 30-200 Hz; sens 84 dB. Black cabinet. 8 x 21⅝ x 16⅞ in; 32 lb $800

CS-H505V Home Theater System
5-speaker system with left/right main speakers with 12-in cone woofer, 4¾-in cone midrange and 2½-in cone tweeter; center-channel speaker with two 6-in cone woofers and one 2½-in cone tweeter; 2 surround speakers, each with 4-in full-range cone driver. Magnetic shielding on front and center-channel speaker. Power handling 120 W max front, 150 W max center, 75 W max surround; FR 30 Hz-20 kHz system; sens 87 dB front, 89 dB center and surround; imp 8 ohms $510

S-CR505 Center/Surround System
3-speaker system with center-channel speaker; two 2-way surround speakers, each with 5⅛-in LPR woofer and 1-in tweeter. Magnetic shielding. Includes mounting bracket for wall/stand. Power handling 160 W max; crossover point 5 kHz; FR 55 Hz-35 kHz system; sens 84 dB. Black cabinet. 5½ x 9 x 6 in; 6 lb $375

CS-G104 2-Way Bookshelf Speaker
Acoustic-suspension design with 10-in woofer and 2½-in cone tweeter. Power handling 50 W; FR 55 Hz-20 kHz $166/pr

S-CR400 Center/Surround System
3-speaker system with magnetically shielded center speaker with two 4-in drivers; 2 surround speakers, each with 4-in driver. Power handling 70 W center, 40 W surround $160

HTSS-1-K/H Satellite Speaker
With black or white stand $150/pr

CS-G404 3-Way Speaker
Bass-reflex design with 16-in woofer, 4¾-in cone midrange, and 2½-in cone tweeter. Power handling 150 W; FR 30 Hz-20 kHz $135
CS-G304A. As above, 12-in woofer. Power handling 120 W $326/pr
CS-G204. As above, 10-in woofer. Power handling 100 W; FR 40 Hz-20 kHz $175/pr

S-CR300K/Q Center/Surround System
3-speaker system with center speaker with two 4-in full-range cones; two surround speakers, each with 4-in full-range cone; magnetic shielding for center speaker. Power handling 75 W max center, 35 W max surround; sens 86 dB center, 85 dB surround $115

CS-C400 Center-Channel Speaker
Two 4-in full-range drivers. Magnetic shielding. Power handling 70 W; FR 50 Hz-20 kHz; sens 90 dB; imp 8 ohms. 12⅝ x 5½ x 10¼ in $90

CS-X500-Q/K Surround Speaker
Acoustic-suspension design with 4-in full-range driver. Power handling 40 W; FR 100 Hz-20 kHz; sens 88 dB; imp 8 ohms. Oak or black finish. 5½ x 7½ x 5 in $70/pr

CS-C250II-Q/K 2-Way Center-Channel Speaker
Bass-reflex design with 6-in woofer and 2½-in cone tweeter. Magnetic shielding. Power handling 70 W; FR 50 Hz-20 kHz; sens 88 dB; imp 8 ohms. Oak or black finish. 11⅞ x 6¾ x 6⅝ in $65

PIONEER ELECTRONICS TECHNOLOGY

Garden Speaker Series
CSL-100 2-Way Outdoor Speaker
Omnidirectional design with 6½-in graphite reinforced-polypropylene woofer and 3½-in tweeter. DuPont Corian cabinet; overload protection circuitry; operation within temperature extremes of 13° to 150° F; resistance to weather and ultraviolet radiation; stainless-steel hardware; 12-V lighting system with 18-W lamp and 180° lighting pattern. Mountable onto wood deck, concrete, or brick surface. 12-V transformer optional. Power handling 100 W max; FR 70 Hz-20 kHz; sens 82 dB; imp 8 ohms. Gray or beige. 13½ x 13½ x 8¾ in; 33 lb $599
CSL-LV88T Outdoor Lighting Transformer. Designed for use with four Pioneer Electronics Technology lighted speakers. Weather-resistant; 24-hr timer; 88 W $55
CSL-LV44T. As CSL-LV88T, 44 W $45
CSL-1000. Tower version of above with two 3½-in tweeters. Features 360° lighting with layered lens system. Power handling 150 W max; FR 35 Hz-25 kHz; sens 86 dB. 9½ x 35½ x 9½ in; 61 lb ...$1,998

CSL-250 Outdoor Speaker
Omnidirectional design with 6½-in graphite-reinforced polypropylene driver. Dual-ported polyethylene cabinet; operation within temperature extremes of 13° to 140° F; stainless-steel hardware. Mountable onto wood deck, concrete, or brick surface; may be lowered up to 6 inches into ground.

Pioneer Electronics Technology Garden Speaker series

Includes stakes for ground mounting. Power handling 150 W max; FR 50 Hz-20 kHz; sens 86 dB; imp 8 ohms. Gray, beige, or green. 13 x 15½ x 9⅝ in; 12 lb $299
CSL-300. As above, 12-V lighting system with 12-W lamp and 360° lighting pattern. 12-V transformer optional. 13 x 17¼ x 9⅝ in; 14 lb $369

CSL-50E Outdoor Speaker
4½-in graphite-reinforced polypropylene driver. Non-resonant, weather-proof, air- and water-tight cabinet; operation within temperature extremes of 13° to 140° F; resistance to moisture and ultraviolet fading; stainless-steel hardware. Gold-plated 5-way binding posts. Eave/ceiling/wall mountable. Includes mounting brackets and hardware. Power handling 150 W max; FR 75 Hz-20 kHz; sens 88 dB; imp 8 ohms. Black or white. 5-yr parts-and-labor warranty. 10¼ x 5½ x 8½ in; 5 lb $269/pr
CSL-70E. 2-way version of above with ¾-in tweeter. FR 75 Hz-22 kHz. 6 lb $369/pr
CPL-SS36. 36-in stainless steel ground mount stakes for models CSL-50E/70E. Provides mounting versatility; use in flower beds, and planters . . .$45/pr

Avio Series
The following use an acoustic-suspension design, have gold-plated binding posts, are weather resistant, and come in a charcoal or paintable-white finish. They carry a 5-year warranty.

CSL-30 2-Way Speaker
4½-in polypropylene woofer and 1-in dome tweeter. Includes wall bracket with mounting hardware. Power handling 100 W; crossover point 4 kHz; FR 65 Hz-20 kHz; sens 89 dB; imp 8 ohms. 6½ x 10½ x 6¼ in; 5 lb $250/pr
CSL-30T. As above, 4-position switch on rear for 2.5, 5, 10, and 15-W taps. 6 lb $300/pr

CSL-90 2-Way Speaker
4½-in polypropylene woofer, 4½-in polypropylene passive radiator, and 1-in soft-dome tweeter. Base also acts as adjustable wall, ceiling, or eave mount. Power handling 120 W; crossover point 4 kHz; FR 50 Hz-20 kHz; sens 89 dB; imp 8 ohms. 6½ x 17¼ x 6¼ in; 8 lb $225

PLATINUM AUDIO

Air Pulse 3.1 3-Way Speaker
Two 12-in woofers, 4-in compression midrange, and 3-in ring tweeter. 360° radial-horn design. Biampable terminals. Power handling 1000 W; crossover point selectable at 125 Hz, 900 Hz, or 6 kHz; FR 20 Hz-20 kHz ±2 dB; sens 103 dB; imp 16 ohms. Custom wood enclosure. 5-yr warranty. 36 x 76 x 48 in; 750 lb $150,000/pr

Studio 2 2-Way Speaker
Tuned-port design with two 5-in polypropylene woofers and one 1-in aluminum-dome tweeter. Braced ¾-in MDF enclosure; one piece die-cast aluminum backplate. Biampable terminals. Power handling 300 W; crossover points 200 Hz and 2.5 kHz; FR 37 Hz-20 kHz ±2 dB; sens 89 dB; imp 7 ohms. Amari finish. 5-yr warranty. 8 x 21½ x 13 in; 34 lb $1,295/pr

PT-806 2-Way Speaker
Tuned-port design with dual 7-in polypropylene woofers and one 1-in titanium-dome tweeter. Braced ¾-in MDF enclosure; magnetic shielding. Biampable terminals. Power handling 150 W; crossover points 350 Hz and 2.5 kHz; FR 42 Hz-20 kHz; sens 92 dB; imp 6 ohms. Rosewood or black finish. 5 x 23 x 12 in; 32 lb $599/pr
PT 808. As above, includes spiked feet. FR 38 Hz-20 kHz. 48 lb $799/pr
PT-801. As above, but withno spiked feet. Power handling 120 W; crossover point 2.5 kHz; FR 45 Hz-20 kHz; sens 90 dB; imp 8 ohms. 9 x 13 x 12 in; 22 lb $399/pr

Studio 2 2-Way Center-Channel Speaker
Tuned-port design with two 5-in woofers and one 1-in aluminum-dome tweeter. Magnetic shielding; braced 1-in MDF enclosure; die-cast aluminum cabinet. Biampable terminals. Power handling 300 W; crossover points 200 Hz and 2.5 kHz; FR 37 Hz-20 kHz –2 dB; sens 89 dB; imp 7 ohms. Amari finish with cloth-covered metal grille. 5-yr warranty. 8 x 21½ x 13 in; 34 lb $679

Platinum Audio Air Pulse 3.1

RS Series
Reference-2 2½-Way Bookshelf Speaker
Tuned-port design with two 5-in aluminum-cone woofers and 1-in aluminum-dome tweeter. One-piece die-cast aluminum back plate; 1-in polymer-alloy laminate cabinet/internal damping. Biampable terminals. Includes metal-cone feet. Power handling 300 W; crossover points 500 Hz and 2.5 kHz; FR 37 Hz-20 kHz ±2 dB; sens 86 dB; imp 4 ohms. Polished granite with black-acrylic top and bottom panels. 5-yr warranty. 8 x 21½ x 13 in; 68 lb $6,500/pr
Reference-1. As above, 5-in aluminum-cone woofer. Power handling 250 W; crossover point 2.5 kHz; FR 40 Hz-20 kHz ±2 dB; sens 84 dB; imp 6 ohms. 8 x 13½ x 12 in; 43 lb $3,995/pr

LR Series
The following use a tuned-port design with a 1-in aluminum-dome tweeter and a one-piece die-cast aluminum back plate. They have 1-in MDF enclosures and biampable terminals.

Quattro 2½-Way Speaker
Four 5-in aluminum-cone woofers. Internal damping; biampable terminals. Includes metal-cone feet. Power handling 250 W; crossover points 500 Hz and 2.5 kHz; FR 31 Hz-20 kHz ±2 dB; sens 86 dB; imp 8 ohms. Satin rosewood or bird's-eye maple, each with black acrylic top and bottom panels. 5-yr warranty. 9½ x 39½ x 13 in; 70 lb $3,895/pr
Trio. As above, but with two 5-in aluminum-cone woofers. FR 34 Hz-20 kHz ±2 dB; imp 4 ohms. 65 lb $2,995/pr
Duo.. As above, bookshelf version. Metal-cone feet optional. FR 37 Hz-20 kHz ±2 dB. 8 x 21½ x 13 in; 38 lb $2,195/pr
Solo 2-Way Bookshelf Speaker. As above, one 5-in aluminum-cone woofer. Power handling 200 W; crossover point 2.5 kHz; FR 40 Hz-20 kHz ±2 dB; sens 84 dB; imp 6 ohms. 8 x 13½ x 13 in; 27 lb $1,695/pr

Duo 2½-Way Center-Channel Speaker
Two 5-in woofers. Internal damping; magnetic shielding. Power handling 250 W; crossover points 50 Hz and 2.5 kHz; FR 37 Hz-20 kHz ±2 dB; sens 86 dB; imp 4 ohms. Satin rosewood or bird's-eye maple, each with black acrylic top and bottom panels. 8 x 21½ x 13 in; 38 lb $1,299

Solo 2-Way Center-Channel Speaker
5-in woofer. Magnetic shielding. Power handling 200 W; crossover point 2.5 kHz; FR 40 Hz-20 kHz ±2 dB; sens 84 dB; imp 6 ohms. Black. 5-yr warranty. 8 x 13½ x 13 in; 27 lb $625

ST Series
The following use a tuned-port design with a 1-in aluminum-dome tweeter and a one-piece die-cast aluminum back plate. They have 1-in MDF enclosures and biampable terminals and carry a 5-year warranty.

Studio-3 2½-Way Speaker
Two 5-in polypropylene-cone woofers. Includes metal-cone feet. Power handling 300 W; crossover points 200 Hz and 25 kHz; FR 35 Hz-20 kHz ±2 dB; sens 89 dB; imp 7 ohms. Amari finish with black goatskin top and bottom. 9½ x 39½ x 13 in; 75 lb $1,695/pr

Studio-1 2-Way Bookshelf Speaker
5-in polypropylene-cone woofer. Power handling 150 W; crossover point 2.5 kHz; FR 50 Hz-20 kHz ±2 dB; sens 86 dB; imp 8 ohms. Amari finish with black goatskin top and bottom. 8 x 13½ x 13 in; 23 lb $995/pr
Studio-1. As above, center-channel version. Magnetic shielding. Amari finish. 13½ x 8 x 13 in; 23 lb $525

PMC

The following have Transflex loading for extended low-frequency performance, lower coloration, consistent tonal balance, and higher sound levels without distortion.

MB1 3-Way Speaker
Transmission-line design with 12-in radial woofer, 3-in fabric-dome midrange, and 1-in dual-chamber silk soft-dome tweeter. Double-veneered MDF cabinet; high-power crossover. Includes stands for studio use. Active version optional. Power handling 800 W; crossover points 380 Hz and 3.8 kHz; FR 20 Hz-25 kHz; sens 91 dB; imp 4 ohms. Black ash, walnut, or rosewood mirrored real-wood veneer. 15 x 34¼ x 21 in; 108 lb $8,900/pr

IB1S 3-Way Speaker
Transmission-line design with 8-in flat carbon-fiber woofer, 3-in silk-dome midrange, and 1-in silk-dome tweeter. 3 pair binding-post inputs. Magnetic shielding, studio stands, and amplifier optional. Power handling 500 W; crossover points 380 Hz and 3.8 kHz; FR 25 Hz-25 kHz; sens 89 dB; imp 4 ohms. Black textured finish. 13 x 29⅛ x 13⅜ in; 80 lb $4,500/pr

AB1 2-Way Speaker
Transmission-line design with 9½-in woofer with 4-in voice coil and dual-chamber fabric soft-dome tweeter. Designed for mid- and far-field applications. Double-veneered MDF cabinet. 2 pair gold-plated binding posts. Stands for studio use optional. Power handling 400 W; crossover point 2 kHz; FR 25 Hz-25 kHz; sens 89 dB; imp 6 ohms. Black ash, walnut, or rosewood mirrored real-wood veneer. 10½ x 31⅛ x 17 in; 55 lb $3,420/pr

LB1 2-Way Speaker
Transmission-line design with 4½-in woofer and 1-in dual-chamber silk soft-dome tweeter. Non-resonant double-veneered cabinet. Power handling 300 W; crossover point 2.5 kHz; FR 35 Hz-25 kHz; sens 87 dB; imp 4 ohms. Black ash, walnut, or rosewood. 8 x 16 x 10 in; 19 lb $2,160/pr

XB1 Subwoofer
Transmission-line design with die-cast 10-in dual-voice-coil driver. ¾-in-thick MDF construction. 4 pair binding posts; banana plugs. Power handling 200 W; crossover point 100 Hz; FR 25-200 Hz; sens 90 dB; imp 8 ohms. Textured black finish. 17 x 31⅛ x 10½ in; 62 lb $1,250

TB1 2-Way Speaker
Acoustic-suspension design with 7-in magnesium-

alloy woofer and 1-in aluminum-alloy phase-shielded ferrofluid-cooled tweeter. Nonresonant double-veneered cabinet. Power handling 150 W; crossover point 3 kHz; FR 40 Hz-25 kHz; sens 90 dB; imp 8 ohms. Black ash or walnut. 7¼ x 21⅜ x 10¾ in; 19 lb $1,025/pr

POLK AUDIO

Signature Reference Theater Home Theater System
7-speaker system with two bass-reflex powered subwoofers, each with two 10-in composite-polymer drivers and 300-W amp; two acoustic-suspension front and one center-channel speakers, each with four 5¼-in composite-polymer drivers and one 1-in trilaminate-dome tweeter; two LSf/x surround speakers with two 4½-in woofers and two 1-in tweeters. Magnetic shielding. Control center provides subwoofer crossover, phase, and level adjustments. FR 16-90 Hz subwoofer, 65 Hz-26 kHz front and center channel; sens 87 dB; imp 8 ohms. Ash with black-lacquer finish. Subwoofer: 14 x 31½ x 22¼ in. Front: 12 x 28 x 18 in. Center: 26½ x 17½ x 6 in. Control center: 16½ x 2½ x 9¾ in $8,999

RT Series
RT 5000p Home Theater System
5-piece system featuring two RT 3000p front speakers, CS 1000p center speaker, and two F/X 1000 surround speakers. Rosewood finish wood veneer. 5-yr speakers, 3-yr amp warranty $6,000

RT 3000p 2-Way Speaker/Powered Subwoofer
Bass-reflex design with built-in powered subwoofer with two 8-in drivers and 300-W amp; 2-piece floor-standing tower with two 6½-in woofers and one 1-in trilaminate-dome tweeter. Line- and speaker-level inputs; gold-plated biampable 5-way binding posts for tower; line-level subwoofer outputs. Variable frequency control; phase-control switch; front volume control; movies/music switch. Includes adjustable feet and floor spikes for angling enclosure up or down. Crossover point selectable at 80 Hz, 1.2 kHz, or 2 kHz; FR 18 Hz-26 kHz; sens 120 dB; imp 8 ohms. Black oak or rosewood veneer. 5-yr speakers, 3-yr amp warranty. Cabinet: 10 x 50 x 17 in; Base: 11 x 18½ in. 76 lb total $1,800

RT 2000p 3-Way Speaker/Powered Subwoofer
Bass-reflex powered subwoofer section with two 8-in drivers and 100-W amp; acoustic-suspension speaker section with 6½-in woofer and 1-in trilaminate-dome tweeter. Magnetic shielding; 100% MDF construction. Line-level inputs; speaker-level inputs and outputs; biampable terminals. Volume control; auto-on switch. Crossover points 80 Hz and 1.8 kHz; FR 20 Hz-26 kHz; sens 90 dB; imp 8 ohms. Rosewood veneer. 5-yr speaker, 3-yr amp warranty. Cabinet: 9½ x 45½ x 16 in. Base: 11 x 18½ in. 85 lb total $1,100/pr
As above, black woodgrain finish $950
RT 1000p. As above, one 6½-in driver and 80-W amp. Cabinet: 8½ x 42½ x 13 in. Base: 9¼ x 14 in. 63 lb total $660
As above, black woodgrain finish $560

RT 800 2-Way Speaker
Bass-reflex design with two 6½-in woofers and one 1-in trilaminate-dome tweeter. Magnetic shielding. Biampable terminals. Power handling 250 W max; crossover point 1.9 kHz; FR 28 Hz-26 kHz; sens 90 dB; imp 8 ohms. Black woodgrain. 5-yr warranty. Cabinet: 8 x 40¼ x 10½ in. Base: 9¼ x 14 in. 48 lb total $450
RT 600. As above, one 6½-in woofer. Power handling 150 W max; FR 30 Hz-26 kHz. Cabinet: 8 x 34¼ x 10½ in. Base: 9¼ x 14 in. 41 lb total . . .$340

RT 55 2-Way Bookshelf Speaker
Bass-reflex design with two 6½-in woofers and one 1-in trilaminate-dome tweeter; both dynamically balanced and magnetically shielded. Power port and ARC technologies; anti-diffraction bezel and grille; MDF construction. 2 sets of gold-plated biampable binding posts. Power handling 20-200 W; crossover point 2 kHz; FR 35 Hz-26 kHz; sens 91 dB; imp 8 ohms. Black ash. 5-yr warranty. 9½ x 21⅛ x 14⅜ in; 35 lb $300

RT 400 2-Way Speaker
Bass-reflex design with 7½-in woofer and 1-in soft-dome tweeter. Magnetic shielding. Power handling 150 W max; crossover point 3.5 kHz; FR 40 Hz-25 kHz; sens 89 dB; imp 8 ohms. Video gray. 5-yr warranty. 9 x 36½ x 10¼ in; 35 lb $230

RT 35 2-Way Bookshelf Speaker
Bass-reflex design with 6½-in woofer and 1-in soft-dome tweeter. Power port and ARC technologies; anti-diffraction bezel and grille; MDF construction. 5-way binding posts. Includes built-in wall mounting bracket. Power handling 20-125 W; crossover point 2 kHz; FR 39 Hz-25 kHz; sens 90 dB; imp 8 ohms. Black ash. 5-yr warranty. 8⅛ x 15 x 12 in; 20 lb $195
RT 25. As above, 5¼-in woofer. Power handling 20-100 W; FR 50 Hz-25 kHz; sens 89 dB. 6⅝ x 11⅛ x 10¼ in; 14 lb $140
RT 15. As above, crossover point 3.5 kHz; FR 55 Hz-24 kHz; sens 88 dB. Black ash or white. 6⅝ x 11⅛ x 8 in; 12 lb $110

RM Series
RM 7300 Home Theater System
6-speaker system with powered subwoofer with one 10-in driver and 125-W amp; 4 satellites, each with 3½-in midrange and ½-in dome tweeter; center-channel speaker with two 3½-in midranges and ½-in dome tweeter. FR 19 Hz-22 kHz system; sens 89 dB; imp 8 ohms. Black or white finish . . .$1,599

RM 5400 Subwoofer/Satellite System
6-speaker system with woofer with 8-in driver and 100-W amp; two front speakers, each with 3½-in midrange and ½-in dome tweeter; center-channel speaker with two 3½-in drivers and ½-in tweeter; two surround speakers, each with two 4½-in drivers and one ½-in tweeter. Magnetic shielding on front and center speakers. Line-level inputs; speaker-level inputs and outputs. Volume control; auto-on switch. Power handling 125 W front and center, 100 W surround; FR 30 Hz-22 kHz system; sens 89 dB; imp 8 ohms. Satellite black or white; subwoofer black only. 5-yr speakers, 3-yr amp warranty. Front: 4⅛ x 7 x 5½ in. Center: 11⅛ x 4¼ x 5¾ in. Surround: 6⅛ x 10⅛ x 7 in. Subwoofer: 10⅞ x 14⅛ x 19⅜ in $1,099

RM 3300 Subwoofer/Satellite System
3-speaker system with powered subwoofer with 8-in driver and 100-W amp; two satellites, each with 3½-in midrange and ½-in dome tweeter. Power handling 125 W; FR 30 Hz-22 kHz system; sens 89 dB; imp 8 ohms. Black or white finish. Satellite: 7 x 4⅛ x 5½. Subwoofer: 14⅛ x 10⅞ x 19⅜. 40 lb total $799

RM 2000II 2-Way Satellite Speaker
3½-in driver and ½-in driver. Magnetic shielding. Power handling 125 W; FR 150 Hz-22 kHz; sens 89 dB; imp 8 ohms. Black or white finish. 7 x 4⅛ x 5½ in; 10 lb $499/pr

RM 2500 2-Way Center-Channel Speaker
Two 3½-in drivers and one ½-in tweeter. Magnetic shielding. Power handling 125 W; FR 125 Hz-22 kHz; sens 89 dB; imp 8 ohms. Black or white finish. 4¼ x 11⅛ x 5¾ in; 11 lb $299

CS Series
CS 1000P Subwoofer/Center-Channel System
3-piece system with 100-W powered subwoofer with two 6½-in drivers; center speaker with two 6½-in woofers and one 1-in trilaminate-dome tweeter. Dynamic balance drivers; anti-diffraction bezel and grille; MDF construction; magnetic shielding. 5-way binding posts; line-input for subwoofer. Subwoofer-level control. Power handling 20-250 W; crossover point selectable at 150 Hz, 800 Hz, or 2 kHz; FR 30 Hz-26 kHz center; sens 92 dB; imp 8 ohms. Black or rosewood finish; wood veneer. 5-yr speaker, 3-yr amp warranty. 34 x 8⅝ x 14 in; 60 lb $1,200

CS-400 2-Way Center-Channel Speaker
Bass-reflex design with two 6½-in woofers and one 1-in trilaminate-dome tweeter in cascaded driver array. Anti-diffraction bezel and grille; Powerport, ARC, and Dynamic Balance technologies; MDF construction; magnetic shielding. 2 sets gold-plated biampable 5-way binding posts. Power handling 10-250 W; crossover points 800 Hz and 1.5 kHz; FR 40 Hz-26 kHz; sens 91 dB; imp 8 ohms. Black. 5-yr warranty. 18¾ x 8½ x 12⅛ in; 32 lb $450
CS 300. As above, two 5¼-in woofers. Anti-diffraction grille. 1 set 5-way binding posts. Power handling 10-200 W; crossover point selectable at 800 Hz, 2 Hz, or 2.5 kHz; FR 50 Hz-26 kHz; sens 90 dB. 16¾ x 7 x 9¼ in; 23 lb $330
CS 245. As above, 1-in soft-dome tweeter. Dynamic Balance technology. Power handling 10-180 W; crossover point selectable at 900 Hz, 2 kHz, or 2.5 kHz; FR 52 Hz-25 kHz. 16¾ x 6⅜ x 9¼ in; 22 lb $220

CS 175 2-Way Center-Channel Speaker
Bass-reflex design with 5¼-in woofer and ¾-in soft-dome tweeter. Anti-diffraction grille; Dynamic Balance technology; MDF construction; magnetic shielding. 5-way binding posts. Power handling 10-100 W; crossover point 2.5 kHz; FR 55 Hz-22 kHz; sens 89 dB; imp 8 ohms. Black. 5-yr warranty. 16¾ x 6⅜ x 8 in; 18 lb $170

Surround Speaker Series
F/X 1000 2-Way Surround Speaker
Acoustic-suspension design with two 6½-in woofers and two 1-in trilaminate-dome tweeters. Anti-diffraction bezel and grille; Dynamic Balance Technology; MDF construction. 5-way binding posts. Dipole/bipole selector switch. Includes wall-mount bracket. Power handling 20-250 W; FR 40 Hz-26 kHz; sens 90 dB; imp 8 ohms. Black or rosewood finish wood veneer. 5-yr warranty. 11¼ x 19¼ x 9¾ in; 23 lb $1,200/pr
F/X 500. As above, power handling 10-150 W. 9⅞ x 15¼ x 9⅛ in $550/pr

RT f/x 2-Way Bipolar/Dipolar Surround Speaker
Switchable bipolar/dipolar design with one 5¼-in woofer and two 1-in trilaminate-dome tweeters. Power handling 100 W; FR 40 Hz-25 kHz; sens 89 dB; imp 8 ohms. Black or white finish. 10 x 8½ x 6¾ in; 17 lb $449/pr

PSW Powered Subwoofers
PSW 150 Powered Subwoofer
10-in driver; 200-W amp. Line- and speaker-level inputs; speaker-level outputs. Phase control; auto on/off. Crossover point variable from 50-150 Hz; FR 20-150 Hz. Black finish. 18 x 12¼ x 20 in; 48 lb $649

PSW 140 Powered Subwoofer
Dual-ported bass-reflex design with down-firing direct-radiating 10-in driver; 180-W amp. MDF construction; auto-mute circuitry. Line- and speaker-level inputs; speaker-level outputs. Phase switch; volume control. Crossover point variable from 60-160 Hz; FR 30-180 Hz. Video gray. 5-yr speaker, 3-yr amp warranty. 11½ x 15¼ x 18 in $500

PSW 120 Powered Subwoofer
Bass-reflex design with 8-in driver; 90-W amp. Line-level inputs; speaker-level inputs and outputs. Volume control; variable frequency control; switchable phase; auto on switch. FR 35-150 Hz. Video gray. 5-yr speaker, 3-yr amp warranty. 9½ x 13¼ x 19 in $339

AB Series
The following have a paintable white finish.

AB 855 2-Way In-Wall Speaker
Infinite-baffle design with two 6½-in woofers and one 1-in trilaminate-dome tweeter. Dynamic Bal-

ance technology. 5-way binding posts. Power handling 20-150 W; crossover point 3 kHz; FR 30 Hz-26 kHz; sens 89 dB; imp 8 ohms. 5-yr warranty. Rectangular frame. Mounting area: 16¾ x 7½ in. Mounting depth 3¼ in $570/pr
AB 755. As above, one 6½-in woofer. Power handling 20-100 W; FR 32 Hz-26 kHz. Mounting area: 11 x 7½ in $400/pr
AB 555. As above, 5¼-in woofer and ½-in soft-dome tweeter. FR 67 Hz-20 kHz. Mounting area: 10 x 6¾ in $270/pr

AB 610a 2-Way In-Wall Speaker
6½-in composite-polymer woofer and ½-in dome tweeter. Power handling 100 W; FR 40 Hz-20 kHz; sens 90 dB; imp 8 ohms. Mounting diameter 7¼ in $269/pr

AB 410a In-Wall Speaker
4½-in polymer-laminate full-range driver. Power handling 75 W; FR 60 Hz-17.5 kHz; sens 87 dB; imp 8 ohms. Mounting diameter 7¼ in $159/pr

Multi-Application Series
M5 2-Way Speaker
6½-in composite-polymer woofer and 1-in dome tweeter. Includes mounting bracket. Power handling 125 W; FR 32 Hz-25 kHz; sens 91 dB; imp 8 ohms. Black or white finish. 13¼ x 8¼ x 9 in; 10 lb ...$199
AWM5 All-Weather. All-weather version of M5. White finish $249

AWM2 2-Way Outdoor Speaker
4½-in woofer and ½-in dome tweeter. Power handling 100 W; FR 70 Hz-22 kHz; sens 89 dB; imp 8 ohms. White finish. 10⅛ x 6⅛ x 7 in; 4 lb $109

M3 II 2-Way Speaker
5¼-in composite-polymer woofer and ½-in dome tweeter. Power handling 100 W; FR 60 Hz-22 kHz; sens 89 dB; imp 8 ohms. Black or white finish. 11¼ x 6½ x 8¼ in; 7 lb $109

M1 Speaker
4-in full-range driver. Power handling 75 W; FR 75 Hz-18 kHz; sens 89 dB; imp 8 ohms. Black or white finish. 10⅛ x 6⅛ x 7 in; 4 lb $70

POSH
The following have Posh's patented injection-molded polystyrene baffle plate and an acoustic-chamber design with a customizable trim ring/grille assembly in an 11-inch round or square frame.

Model 928 2-Way Ceiling Speaker
Coaxial acoustic-suspension design with 8-in mica-injected polypropylene woofer and 1-in soft-dome tweeter. Power handling 150 W max; FR 35 Hz-20 kHz ±3 dB; sens 90 dB; imp 8 ohms $1,050/pr

In-Wall 9 2-Way In-Wall/Ceiling Speaker
Coaxial infinite-baffle design with 8-in mica-injected polypropylene woofer and 1-in soft-dome tweeter. Designed for new-construction applications. Available with baffled plate modified for retrofit at same price (Retro 9). Power handling 150 W max; FR 45 Hz-20 kHz ±3 dB; sens 90 dB; imp 8 ohms. 18 x 18 x 1 in $899/pr
In-Wall 5. As above, 8-in doped-paper woofer, ¾-in ferrofluid-cooled polymer-dome tweeter. Power handling 100 W max; FR 60 Hz-20 kHz ±3 dB. 18 x 10 x 1 in $550/pr
Retro 5. As In-Wall 5, baffled plate modified for retrofit. 9⅞ x 13⅝ x 1 in $550/pr

Model 528 2-Way Ceiling Speaker
Coaxial design with 8-in felted-paper woofer and ¾-in ferrofluid-cooled horn-loaded polymer-dome tweeter. Loudness compensation with 4-dB boost at 100 Hz and 10 kHz. Power handling 100 W max; FR 47 Hz-22 kHz ±3 dB; imp 8 ohms. 18 x 18 x 1¼ in $725/pr

Model 835-SX Ceiling Subwoofer
Bass-reflex design with 8-in polypropylene dual-voice-coil driver. Passive crossover network combination of 2nd-order Linkwitz-Riley low-pass filter with 1st-order impedance-compensated high-pass filter for satellite speakers; 2 identical crossovers for dual-mono design. Crossover installable at speaker or amp. Power handling 150 W max; FR 35-120 Hz ±3 dB; sens 90 dB; imp 4 ohms. 18 x 18 x 1¼ in $640
Model 835-S. As above, no crossover $480

Model 835-MX Ceiling Subwoofer
Bass-reflex design with 8-in long-throw polypropylene driver. Passive crossover network combining 2nd-order Linkwitz-Riley low-pass filter with 1st order impedance-compensated high-pass filter. Power handling 150 W max; FR 35-120 Hz ±3 dB; sens 90 dB; imp 4 ohms. 18 x 18 x 1¼ in $520
Model 835-M. As above, no crossover $440

Model M-2 2-Way Bookshelf Speaker
Tuned-port design with 5¼-in doped-paper-cone woofer with rubber surround and Kapton voice coil and 1-in sealed ferrofluid-cooled polyamide-dome tweeter. Power handling 100 W; FR 50 Hz-20 kHz ±3 dB; imp 4 ohms. White or black finish $349/pr

Model P-2 2-Way Speaker
Acoustic-suspension design with 5¼-in doped-paper cone woofer with rubber butyl surround and Kapton former voice-coil; 1-in sealed-back ferrofluid-cooled soft-dome tweeter. Injection molded; trapezoidal shape; ABS plastic enclosure. Weather-resistant. Includes mounting brackets. Power handling 70 W cont; FR 60 Hz-20 kHz ±3 dB. Black or white. 8¼ x 11 x 7½ in $299/pr

Model SW-10 Musical Subwoofer
10-in doped-paper-cone driver with polypropylene-butyl surround and 1½-in flat-wound aluminum voice coil. First-order low pass. FR 30-120 Hz ±3 dB; imp 8 ohms $239

Model P-1 2-Way Bookshelf Speaker
Acoustic-suspension design with 4-in woofer with butyl-rubber surround and ¾-in sealed soft-dome tweeter. Power handling 70 W; FR 80 Hz-18 kHz +3 dB; imp 8 ohms. Black or white $189/pr

PROAC
The following, except Response CC1, are available in cherry, mahogany, or black ash finish.

Studio 150 2-Way Speaker
Two 5-in magnesium-frame drivers and one ¾-in soft-dome tweeter. FR 35 Hz-30 kHz; sens 89 dB; imp 8 ohms. 7½ x 38½ x 10 in; 50 lb $2,300/pr

Studio 100 2-Way Bookshelf Speaker
6½-in woofer and 1-in fabric soft-dome tweeter. FR 40 Hz-30 kHz; sens 88 dB; imp 8 ohms. 8 x 16 x 10 in; 27 lb $1,400/pr

Tablette 50 2-Way Bookshelf Speaker
5-in woofer and ¾-in soft-dome tweeter. FR 40 Hz-20 kHz; sens 90 dB; imp 8 ohms. 6½ x 11 x 9 in; 13 lb $975/pr

Response CC1 2-Way Center-Channel Speaker
Two 5-in carbon-filled polypropylene woofers and one ¾-in fabric soft-dome tweeter. Acoustically transparent crimplene grille; magnetic shielding. FR 70Hz-20 kHz ±3 dB; sens 89 dB; imp 8 ohms. Black. 7 x 17½ x 7⅞ in; 22 lb $900

Tablette 50 Signature 2-Way Bookshelf Speaker
Rear-vented bass-reflex design with 5-in die-cast polycarbonate-cone woofer and ¾-in ferrofluid-cooled soft-dome honeycomb tweeter. Copper-magnet woofer assembly with copper-phase plug; Multistrand OFC wiring throughout. Power handling 20-150 W; FR 35 Hz-30 kHz; sens 89 dB; imp 8 ohms. Ebony, Burr oak, or bird's eye maple. 6½ x 11 x 9 in $700/pr

PROFESSIONAL TECHNOLOGIES
The following use a bass-reflex design and have an oak-veneer finish.

PT-8341 3-Way Speaker
Polypropylene doped TPX-cone 8-in woofer and 4-in midrange; 1-in dome tweeter. Proprietary time-aligned crossover; heavy-duty bracing; trilaminate MDF cabinet. Power handling 200 W; FR 37 Hz-20 kHz ±3 dB; sens 90 dB; imp 8 ohms. 13½ x 27¼ x 12 in $2,300/pr

PT-821 2-Way Speaker
8-in carbon-fiber woofer and 1¼-in dome tweeter. Heavy-duty bracing; trilaminate MDF cabinet. Power handling 500 W; FR 31 Hz-20 kHz ±3 dB; sens 91 dB; imp 8 ohms. 10½ x 35⅝ x 13¼ in ...$1,700/pr

PT-652D 2-Way Speaker
Two 6½-in woofers and one 1¼-in tweeter. D'Appolito configuration. Power handling 500 W; crossover point 2.5 kHz; FR 40 Hz-20 kHz; sens 93 dB; imp 4 ohms. 9 x 24 x 13½ in $1,500/pr

PT-6521 2-Way Bookshelf Speaker
6½-in woofer and 1-in dome tweeter. Power handling 120 W; FR 45 Hz-20 kHz ±3 dB; sens 89 dB; imp 8 ohms. 13½ x 17¼ x 12 in $999/pr

Modular Series
Modula 12 7-Way Hybrid Ribbon Speaker
12-in woofer, 5¼-in midrange, 4½-in midrange, 3-in dome midrange, 1¼-in cloth-dome tweeter, 1-in metal-dome tweeter, standard ribbon tweeter. Power handling 150 W rms; FR 37 Hz-1.8 kHz; sens 88 dB; imp 8 ohms. 9 x 30 x 13½ in $399
Modula 10. As above, 10-in driver. FR 43 Hz-2.5 kHz. 9 x 23 x 13½ in $379
Modula 8. As above, 8-in driver. FR 32 Hz-3.5 kHz. 9 x 18 x 13½ in $369
Modula 6.5. As above, 6½-in driver. Power handling 75 W rms; FR 47 Hz-3.5 kHz. 9 x 11 x 13½ in ...$359

PSB
Stratus Gold i 3-Way Speaker
Bass-reflex design with 10-in woofer, 6-in midrange, and 1-in aluminum-dome tweeter. Power handling 250 W; FR 31 Hz-21 kHz ±3 dB; sens 90 dB; imp 4 ohms. High-gloss black finish. 12¼ x 43¼ x 16¾ in; 90 lb $2,849/pr
Black ash or dark cherry veneer $2,549/pr

Stratus Silver 2-Way Speaker
Bass-reflex design with two 6½-in woofers and one 1-in aluminum-dome tweeter. Power handling 200 W; crossover points 500 Hz and 2.1 kHz; FR 35 Hz-21 kHz ±3 dB; sens 91 dB; imp 4 ohms. High-gloss black finish. 9½ x 38½ x 13½ in; 47 lb ...$1,899/pr
Black ash or dark cherry veneer $1,699/pr

Stratus SubSonic 4 Powered Subwoofer
Acoustic-suspension design with 15-in polypropylene-coated fiber-cone woofer with foam surround; 350-W amp. Speaker- and line-level inputs. Variable DSP control. Includes remote control, spikes, and levelers. FR 20-120 Hz ±3 dB; sens 97 dB. High-gloss black finish. 19¼ x 19½ x 22 in; 85 lb $1,499
As above, black ash finish $1,299

Century 1000i 2-Way Speaker
Bass-reflex design with two 6½-in woofers and one 1-in dome tweeter. Power handling 150 W; crossover points 500 Hz and 2 kHz; FR 40 Hz-21 kHz ±3 dB; sens 92 dB; imp 4 ohms. Gloss-black finish. 9 x 36¾ x 12¾ in; 39 lb $1,199/pr
Black ash or dark cherry finish $999/pr

Stratus Mini 2-Way Speaker
Bass-reflex design with 6½-in woofer and ¾-in aluminum-dome tweeter. Power handling 150 W; crossover point 2.2 kHz; FR 50 Hz-21 kHz ±3 dB; sens 88 dB; imp 4 ohms. High-gloss black finish. 8¾ x 15½ x 13¼ in; 23 lb $1,149/pr
Black ash or dark cherry veneer $1,049/pr

Stratus Bronze 2-Way Speaker
Bass-reflex design with two 6½-in felt-cone woofers with rubber surrounds and one 1-in ferrofluid-cooled aluminum-dome tweeter. MDF cabinet construction with multiple bracing. Dual gold-plated 5-way binding posts. Includes adjustable spikes and padded feet. Power handling 150 W; crossover points 500 Hz and 2.0 kHz; FR 40 Hz-21 kHz; sens 92 dB; imp 4 ohms. Black ash or dark cherry laminate. 9 x 36¾ x 12¾ in; 39 lb $1,099/pr

Stratus SubSonic 3i Powered Subwoofer
Acoustic-suspension design with 15-in polypropylene-coated fiber-cone woofer; 350-W amp. Speaker- and line-level inputs. Volume control; phase switch; LED power indicator. Includes feet. FR 24-150 Hz ±3 dB; sens 97 dB. High-gloss-black finish. 17½ x 19¼ x 17½ in; 54 lb $999
As above, black rough-cast finish $899

Century 800i 2-Way Speaker
Bass-reflex design with two 8-in woofers and one 1-in dome tweeter. Power handling 150 W; crossover point 2 kHz; FR 42 Hz-21 kHz ±3 dB; sens 92 dB; imp 8 ohms. Black ash or dark cherry finish. 10 x 35¼ x 13½ in; 42 lb $799/pr

Stratus C6 2-Way Center-Channel Speaker
Bass-reflex design with two 6½-in woofers and two 1-in dome tweeters. Magnetic shielding. Power handling 200 W; crossover point 2 kHz; FR 58 Hz-21 kHz ±3 dB; sens 93 dB; imp 8 ohms. High-gloss black finish. 23¾ x 8 x 11¾ in; 30 lb ...$770
Black ash veneer $700

Century SubSonic 2i Powered Subwoofer
Bass-reflex design with 12-in polypropylene-coated fiber-cone woofer; 130-W amp. Speaker- and line-level inputs. Volume control; phase switch; LED power indicator. Includes feet. FR 25-150 Hz; sens 94 dB. Ebony ash laminate finish. 14½ x 19¼ x 14¼ in; 40 lb $649

Century 600i 2-Way Speaker
Bass-reflex design with two 6½-in woofers and one 1-in dome tweeter. Power handling 125 W; crossover point 2.2 kHz; FR 43 Hz-21 kHz ±3 dB; sens 91 dB; imp 8 ohms. Black ash or dark cherry finish. 8½ x 31 x 13½ in; 34 lb $599/pr

Stratus C5 2-Way Center-Channel Speaker
Bass-reflex design with two 5¼-in woofers and two ½-in dome tweeters. Magnetic shielding. Power handling 150 W; crossover point 2 kHz; FR 66 Hz-21 kHz ±3 dB; sens 92 dB; imp 8 ohms. High-gloss black finish. 19½ x 6¾ x 9¾ in; 22 lb ...$549
Black ash veneer $499

Century 500i 2-Way Speaker
Bass-reflex design with 8-in woofer and ¾-in dome tweeter. Power handling 100 W; crossover point 2.2 kHz; FR 45 Hz-21 kHz ±3 dB; sens 92 dB; imp 6 ohms. Black ash or dark cherry finish. 10 x 23¾ x 11½ in; 26 lb $499/pr

Ambient II 2-Way Dipolar Surround Speaker
Quasi-dipolar design with two 5¼-in woofers and two ½-in dome tweeters. Power handling 80 W; FR 75 Hz-20 kHz; sens 90 dB; imp 8 ohms. Black oak or white finish. 11 x 11 x 8 in; 10 lb $449/pr

Alpha Subsonic 1 Powered Subwoofer
Bass-reflex design with 10-in woofer; amp rated at 65 W rms. Adjustable level and roll-off controls. FR 28-150 Hz; sens 93 dB. Black rough-cast finish. 14½ x 11⅞ x 14¼ in; 26 lb $439

Century 400i 2-Way Bookshelf Speaker
Bass-reflex design with 6½-in woofer and ¾-in dome tweeter. Power handling 80 W; crossover point 2.5 kHz; FR 55 Hz-21 kHz ±3 dB; sens 89 dB; imp 6 ohms. Black ash or dark cherry finish. 8½ x 16 x 11½ in; 17 lb $399/pr

Ambient I 2-Way Dipolar Surround Speaker
Quasi-dipolar design with two 4½-in woofers and two ½-in dome tweeters. Power handling 75 W; crossover point 3 kHz; FR 80 Hz-21 kHz; null at 90°; sens 90 dB; imp 8 ohms. Black oak or white finish. 8¾ x 8½ x 6¼ in; 6 lb $349/pr

Century 200Ci 2-Way Center-Channel Speaker
Bass-reflex design with two 5¼-in woofers and one ½-in dome tweeter. Magnetic shielding. Power handling 120 W; crossover point 2.8 kHz; FR 68 Hz-21 kHz ±3 dB; sens 92 dB; imp 8 ohms. Ebony ash finish. 19¼ x 6½ x 10 in; 18 lb $299

Century 300i 2-Way Bookshelf Speaker
Bass-reflex design with 6½-in woofer and ¾-in dome tweeter. Power handling 60 W; crossover point 3 kHz; FR 70 Hz-21 kHz ±3 dB; sens 91 dB; imp 6 ohms. Black ash or dark cherry finish. 8½ x 14¼ x 9½ in; 15 lb $299/pr

Alpha A/V 2-Way Speaker
Bass-reflex design with 6½-in woofer and ½-in ferrofluid-cooled polypropylene flare-dome tweeter. Magnetic shielding. Power handling 60 W; crossover point 3 kHz; FR 68 Hz-21 kHz ±3 dB; sens 92 dB; imp 6 ohms. Black rough-cast, ebony-ash, or dark-cherry finish. 7¾ x 12¾ x 9¾ in; 11 lb $249/pr
Alpha Mini. As above, 5¼-in woofer. Crossover point 3.5 kHz; sens 91 dB. 6½ x 10⅜ x 9¾ in; 9 lb $199/pr
Alpha Mite. As above, 4½-in woofer. FR 72 Hz-21 kHz ±3 dB; sens 90 dB. 5¾ x 9⅛ x 8⅛ in; 7 lb $169/pr
Mounting brackets for the A/V, Mini, or Mite ...$33

Century 100Ci 2-Way Center-Channel Speaker
Bass-reflex design with two 4½-in woofers and ½-in dome tweeter. Magnetic shielding. Power handling 80 W; crossover point 3 kHz; FR 78 Hz-21 kHz ±3 dB; sens 93 dB; imp 6 ohms. Ebony-ash finish. 17 x 6 x 8 in; 13 lb $199

Alpha Midi 2-Way Center-Channel Speaker
Bass-reflex design with 5¼-in polypropylene-coated fiber-cone woofer with rubber surround and ½-in ferrofluid-cooled polypropylene flare-dome tweeter. Magnetic shielding. Power handling 60 W; FR 68 Hz-21 kHz ±3 dB; sens 92 dB; imp 6 ohms. Black rough-cast finish. 6½ x 10⅜ x 9¾ in; 9 lb $119

QUADRATURE

The following have an external digital signal processor that provides amplitude and phase correction specific to each model. Rosewood finish.

DSP 3a 3-Way Speaker
Bass-reflex design with six 6-in pulp-cone woofers, four 5-in polypropylene-cone midranges, and six 1-in polypropylene-dome tweeters. FR 20 Hz-22 kHz ±2 dB; sens 91 dB; imp 8 ohms. 13 x 76 x 19 in; 240 lb $18,500/pr

DSP 4a 3-Way Speaker
Bass-reflex design with two 8-in pulp-cone woofers, two 5-in polypropylene-cone midranges, and four 1-in polypropylene-dome tweeters. FR 23 Hz-21 kHz ±2 dB; sens 89 dB; imp 6 ohms. 13 x 58 x 16 in; 181 lb $12,975/pr

DSP 5a 3-Way Speaker
10-in pulp-cone woofer, 5-in polymer-cone midrange, and 1-in fabric-dome tweeter. FR 33 Hz-20 kHz ±2 dB; sens 88 dB; imp 8 ohms. 13 x 48 x 15½ in; 106 lb $8,990/pr

QUANTA TECHNOLOGIES

The following are available in kit form. Contact the manufacturer for information.

Baby Pyramid MkIII 2-Way Bookshelf Speaker
4th-order vented design with 5¼-in polylaminated carbon-fiber woofer and 1⅛-in ferrofluid-cooled textile-dome tweeter. 6-dB/oct crossover. Crossover point 2 kHz; FR 50 Hz-20 kHz ±3 dB; sens 89 dB; imp 8 ohms. 10⅛ x 15⅛ x 11⅛ in ...$5,500/pr

Model VII Series II 2-Way Speaker
4th-order vented hybrid-line design with 8¼-in laminated-polypropylene woofer and 1⅛-in ferrofluid-cooled textile-dome tweeter. 6-dB/oct crossover. Crossover point 2 kHz; FR 29 Hz-20 kHz ±3 dB; sens 92 dB; imp 8 ohms. 11⅛ x 34⅝ x 12½ in $3,500/pr

B Subwoofer
4th-order vented design with 10¼-in polylaminated driver. FR 25 Hz-20 kHz ±3 dB; sens 92 dB; imp 8 ohms. 14⅛ x 34⅛ x 24⅛ in $3,250

Model III Series 2-Way Speaker
4th-order vented hybrid-line design with 6⅝-in laminated-polypropylene woofer and 1-in ferrofluid-cooled aluminum-dome tweeter. 6 dB/oct crossover. Crossover point 2 kHz; FR 47 Hz-20 kHz ±3 dB; sens 90 dB; imp 8 ohms. Rounded cabinet corners. 8⅝ x 20⅝ x 12⅝ in $2,250/pr
As above, square corners $1,490/pr

Amazing Mini-Monitor 2-Way Bookshelf Speaker
4th-order vented design with 5¼-in polylaminated woofer and 1-in polyimide-dome tweeter. 6 dB/oct crossover. Crossover point 2.5 kHz; FR 54 Hz-22 kHz ±3 dB; sens 88 dB; imp 8 ohms. Rounded cabinet corners. 7⅝ x 16⅝ x 10⅝ in $1,699/pr
As above, square corners $997/pr

A Subwoofer
4th-order vented design with 8¼-in polylaminated woofer. FR 30-200 Hz ±3 dB; sens 89 dB; imp 8 ohms. 11⅛ x 25⅛ x 17⅛ in $1,290

RBH

Model 53 2-Way Bookshelf Speaker
4½-in graphite woofer and ¾-in Mylar tweeter. Injection-molded polypropylene cabinet. Matching brackets optional. Power handling 80 W; crossover point 2.5 kHz; FR 80 Hz-20 kHz ±3 dB; sens 89 dB; imp 8 ohms. Black or white. 9 x 6 x 5 in; 4 lb $129/pr

Theater Series
The following carry a 5-year warranty.

Package 2 Home Theater System
6-speaker package with 150-W powered subwoofer with 10-in aluminum-cone driver; four MC-6-C front and surround speakers and one MC-414-C center speaker $2,025

Package 1 Home Theater System
6-speaker package with 150-W powered subwoofer with 10-in aluminum-cone driver; one MC-414-C center speaker; two MC-6-C front speakers; two MC-6 surround speakers. FR 30-180 Hz sub $1,795

TS-10-A Powered Subwoofer
Bass-reflex design with 10-in aluminum-cone woofer; 150-W amp. Line- and speaker-level inputs and outputs. Auto-on/off; phase switch. Crossover point variable from 40-180 Hz; FR 30-180 Hz; sens 88 dB; imp 4 ohms. 14 x 14¼ x 16½ in; 45 lb $759

TS-12 Powered Subwoofer
Bass-reflex design with 12-in Kraft-pulp woofer; 150-W amp. Speaker- and line-level inputs; speaker-level outputs. Level and phase controls; auto turn-on. FR 30-160 Hz ±3 dB; imp 4 ohms. Black or natural stained oak with black grille. 16 x 15 x 17 in; 56 lb $759

TS-10 Powered Subwoofer
Bass-reflex design with 10-in Kraft-pulp woofer; 150-W amp. Speaker- and line-level inputs and outputs. Level, phase and auto-current-sense controls. FR 30-160 Hz ±3 dB; imp 4 ohms. Black or natural stained oak with black grille. 14 x 15 x 17 in; 45 lb $599

MC-414-C 2-Way In-Wall Speaker
Acoustic-suspension design with two 4-in alumi-

num-cone woofers and one 1-in aluminum-dome tweeter. Swivel tweeter. 1 set speaker inputs. Power handling 150 W; crossover point 4 kHz; FR 55 Hz-20 kHz ±3 dB; sens 91 dB; imp 4 ohms. Rectangular frame. Mounting area: 6½ x 14½ in. Mounting depth 9½ in $385

MC-6-C 2-Way Bookshelf Speaker
Acoustic-suspension design with 6½-in aluminum-cone woofer and 1-in aluminum-dome tweeter. Swivel tweeter. 1 set speaker inputs. Power handling 120 W; crossover point 3 kHz; FR 50 Hz-20 kHz ±3 dB; sens 87 dB; imp 8 ohms. Oak with natural, black, or cherry finish. 8¾ x 14½ x 11 in; 17 lb $382

VDS-12 Subwoofer
Bass-reflex design with 12-in Kraft-pulp woofer. Power handling 250 W; crossover point 100 Hz; FR 30-100 Hz ±3 dB; sens 89 dB; imp 4 ohms. Black or natural-stained oak with black grille. 16 x 19 x 19 in; 48 lb $379

Signature Series
Model 1010-SV Powered Subwoofer
Bass-reflex design with two 10-in Kraft-pulp woofers; 200-W amp. Line- and speaker-level inputs and outputs. Auto-on/off; phase switch. Spikes optional. Crossover point variable from 40-180 Hz; FR 24-180 Hz; sens 89 dB; imp 2 ohms. 13⅛ x 30 x 19 in; 76 lb $999

Model 1061-SV 3-Way Speaker
Bass-reflex design with 10-in Kraft-pulp woofer, 6½-in Kevlar-fiberglass-matrix woofer, and 1-in fabric-dome tweeter. Magnetic shielding. Biampable terminals. Power handling 200 W; crossover points 120 Hz and 3 kHz; FR 24 Hz-20 kHz ±3 dB; sens 87 dB; imp 4 ohms. Black vinyl or hardwood finish. 9 x 47 x 14 in; 70 lb $799

Model 661-SV 2-Way Speaker
Acoustic-suspension design with two 6½-in Kevlar-fiberglass-matrix woofers and one 1-in fabric-dome tweeter. Magnetic shielding. Biampable terminals. Power handling 200 W; crossover point 3 kHz; FR 45 Hz-20 kHz ±3 dB; sens 90 dB; imp 4 ohms. Black vinyl or hardwood finish. 9 x 22 x 12 in; 45 lb $459
Model 61-SV. As above, one 6½-in Kevlar-fiberglass-matrix woofer. Power handling 150 W; sens 87 dB; imp 8 ohms. 9 x 15 x 9½ in; 19 lb $299

Contractor Series
FS-12-P In-Floor Powered Subwoofer
FS-12 in-floor subwoofer and outboard SAM-200 amp $809

WS-100-P In-Wall Powered Subwoofer
WS-100 in-wall subwoofer and outboard SAM-200 power amp $799

FS-12-D In-Floor Subwoofer
Acoustic-suspension design with 12-in Kraft-pulp woofer with dual voice coils. 2 speaker inputs and outputs. Power handling 200 W; crossover point 100 Hz; FR 35-500 Hz ±3 dB; sens 90 dB; imp 8 ohms. Black-satin MDF cabinet with paintable metal grille. 5-yr warranty. Rectangular frame. Mounting area: 14 x 36 in. Mounting depth 9½ in ...$496

C-760 2-Way In-Wall Speaker
Acoustic-suspension design with two 6½-in Kevlar-fiberglass-matrix woofers and one 1-in fabric-dome tweeter. Power handling 200 W; crossover point 3 kHz; FR 50 Hz-20 kHz ±3 dB; sens 90 dB; imp 4 ohms. Black-satin MDF cabinet and black or white knit-cloth grille. 5-yr warranty. Rectangular frame. Mounting area: 14 x 28 in. Mounting depth 3½ in $449

FS-12 In-Floor Subwoofer
Acoustic-suspension design with 12-in Kraft-pulp woofer. Power handling 200 W; FR 30-500 Hz ±3 dB; sens 90 dB; imp 4 ohms. Black-satin MDF cabinet with paintable metal grille. 5-yr warranty. Rectangular frame. Mounting area: 14 x 36 in. Mounting depth 9½ in $440

WS-100 In-Wall Subwoofer
Bass-reflex design with 10-in Kraft-pulp woofer. Power handling 200 W; FR 35-500 Hz ±3 dB; sens 90 dB; imp 4 ohms. Black-satin MDF cabinet and black or white knit-cloth grille. Rectangular frame. Mounting area: 14 x 48 in. Mounting depth 3½ in $412

Architectural Series
The following use an infinite-baffle design.

MC-8 2-Way In-Wall Speaker
8-in aluminum woofer and 1-in aluminum-dome swivel tweeter. Power handling 110 W; crossover point 2.5 kHz; FR 50-20 kHz ±3 dB; sens 87 dB; imp 8 ohms. Paintable ABS frame and metal grille. 25-yr warranty. Rectangular frame. Mounting area: 8¾ x 12¾ in. Mounting depth 3 in $599/pr
TK-8. As above, 8-in Kevlar-fiberglass-matrix woofer. Crossover point 2.75 kHz; sens 92 dB ...$495/pr
MC-6. As above, 6½-in aluminum woofer. Crossover point 3 kHz; sens 87 dB. Mounting area: 7¼ x 10¾ in $449/pr
A-810. As above, 8-in graphite woofer. FR 55 Hz-20 kHz ±3 dB; sens 90 dB. Mounting area: 8¾ x 12¾ in $395/pr
TK-6. As above, 6½-in Kevlar-fiberglass-matrix woofer. Power handling 100 W; FR 50 Hz-20 kHz ±3 dB. Mounting area: 7¼ x 10¾ in $349/pr
A-610. As above, 6½-in graphite woofer. Power handling 80 W; FR 60 Hz-20 kHz ±3 dB ...$295/pr
A-615. As above, FR 65 Hz-20 kHz ±3 dB. Round frame. Mounting diameter: 7⅞ in $225/pr
A-509. As above, 5¼-in graphite woofer and 1-in fabric-dome tweeter. Power handling 60 W. Rectangular frame. Mounting area: 6¼ x 9½ in $159/pr

A-506 2-Way In-Wall Speaker
5¼-in graphite woofer and ¾-in Mylar tweeter. Optional black or white internal trim rings and grilles to match can-type light fixtures. Power handling 60 W; FR 70 Hz-20 kHz ±3 dB; sens 90 dB; imp 8 ohms. Paintable ABS frame and plastic grille. 25-yr warranty. Round frame. Mounting diameter: 6½ in. Mounting depth 3 in $159/pr

AS-10-D In-Wall Subwoofer
10-in graphite woofer with dual voice coil. 2 speaker inputs. Power handling 110 W; FR 40-100 Hz ±3 dB; sens 90 dB; imp 8 ohms. Paintable ABS frame and metal grille. Square frame. Mounting area: 10⅛ x 10⅛ in. Mounting depth 3½ in $149

A-504-D In-Wall Speaker
5¼-in graphite dual-voice-coil driver. Power handling 50 W; crossover point 4 kHz; FR 60 Hz-14 kHz ±3 dB; sens 90 dB; imp 8 ohms. Paintable ABS frame and metal grille. 25-yr warranty. Round 6½-in frame. Mounting depth 3 in $39

MC Series
The following use an infinite-baffle design with a 1-in aluminum-dome swivel tweeter and have magnetic shielding, 1 set of speaker inputs, and a paintable rectangular ABS frame and metal grille. They carry a 25-year warranty.

MC-616 2-Way In-Wall Speaker
Two 6½-in aluminum-cone woofers. Power handling 180 W; crossover point 3.5 kHz; FR 50 Hz-20 kHz ±3 dB; sens 92 dB; imp 6 ohms. Mounting area: 9 x 20½ in. Mounting depth 3¾ in $349

MC-414 2-Way In-Wall Speaker
Two 4-in aluminum-cone woofers. Power handling 150 W; crossover point 4 kHz; FR 60 Hz-20 kHz ±3 dB; sens 91 dB; imp 4 ohms. Mounting area: 17¼ x 15⅝ in. Mounting depth 3½ in $259

Virtual Theater Series
FX-80 Tactile Transducer
Allows lower-frequency tactile information to originate from under the floor or seating area. Power handling 150 W; FR 15-90 Hz; imp 4 ohms. Stamped metal. 4 x 3 x 4 in; 4 lb $149
VT-4. Package including four FX-80 tactile transducers and one 200-W subwoofer amp $899
VT-2. As VT-4, with two FX-80 transducers $689

RCA

SP3500SW Powered Subwoofer
Bass-reflex design with 12-in down-firing long-throw woofer; amp rated at 100 W rms. Adjustable filter; auto turn-on/off. Includes 10-in cable. FR 30-200 Hz. 16½ x 19¾ x 16½ in $499

RF-9950 Home Theater System
6-speaker system with 2 front speakers, each with one 6½-in woofer and one 2½-in cone tweeter; magnetically-shielded center-channel speaker with 5-in woofer and 2½-in cone tweeter; two surround speakers, each with one 4-in full-range driver; 6½-in passive subwoofer; AM/FM receiver rated at 50 W x 3 (front, center) + 20 W x 2 (surround) with 1% THD. Receiver has Dolby Pro Logic, Dolby 3 Stereo, Hall and bypass modes; motor-driven volume control; 30 station presets. Line-level subwoofer output. Includes universal remote control $449

SP3310BS2 Bookshelf Speaker
Bass-reflex design with two 2¾-in full-range drivers. Magnetic shielding. Power handling 100 W max; FR 65 Hz-20 kHz. 8 x 14 x 12⅝ in $399

SP1420T Speaker
Bass-reflex design with two 2¾-in full-range drivers. Magnetic shielding. Power handling 150 W max; FR 45 Hz-20 kHz. Contemporary styling to match RCA ebony-finish televisions. 8 x 45 x 13¾ in $299

SP1320C 2-Way Center-Channel Speaker
Two 3½-in woofers and one 1-in tweeter. Magnetic shielding. Power handling 100 W max; FR 150 Hz-15 kHz. 17 x 5 x 8 in $199

SP3800S3 Center/Surround Speaker
Two 2¾-in full-range drivers. Plastic cabinet with rotating RCA logo for use as either horizontal center-channel speaker or vertical surround speaker. Magnetic shielding. Includes wall-mounting bracket and templates. Power handling 70 W max; FR 200 Hz-20 kHz. 9⅜ x 3⅛ x 5 in $149

RECOTON

The following are wireless speakers.

WP445 2-Way Powered Speaker
Tuned-port design with 4-in woofer and 2-in tweeter with moisture-resistant diaphragms; 130-W amp. Powered by rechargeable lead-acid battery, 8 D-cell batteries, or AC adapter. Auto mute; auto shut off; volume controls. FR 50 Hz-15 kHz $330/pr

W440 2-Way Powered Speaker
Bass-reflex design with 4-in woofer and 2-in tweeter; amp rated at 10 W rms. ABS enclosure; 150-ft range. Bass boost; mono/stereo switches; volume and power switches. Includes 3 AC adapters $300/pr
W403. Mounting brackets $30

W410 2-Way Powered Outdoor Speaker
6½-in woofer and 1-in tweeter; amp rated at 10 W rms. Dome-shaped weatherproof cabinet. Operates on 12V battery. FR 50 Hz-30 kHz $280
W412. Add-on speaker for above $240
W411. Replacement rechargeable lead-acid battery $90
W410-2GRN. As above, green $500/pr

W400 2-Way Powered Speaker
4-in woofer and 2-in tweeter; amp rated at 10 W rms $250/pr
W401. Add on speaker for above. Includes AC adapter $189
W403. Mounting brackets $30

REFERENCE MUSIC SYSTEMS

Revelation II 2-Way Speaker
Two 5¼-in woofers and one 1-in Focal tweeter. Outboard passive crossovers; steel cabinet. Sens 89 dB. 80 lb $3,995/pr
Electronic crossover for above $1,695

Revelation I 2-Way Speaker
5¼-in woofer and 1-in Focal tweeter. Outboard passive crossover. Sens 89 dB. 60 lb ...$2,995/pr
Electronic crossover for above $1,695

RENAISSANCE

Enigma 3-Way Speaker
10-in woofer, 3-in dome midrange, and 1⅛-in soft-dome tweeter. Includes spikes. Power handling 200 W rms; FR 33 Hz-22 kHz ±3 dB; sens 91 dB; imp 8 ohms. Black and red walnut cabinet. 12 x 12 x 41½ in $1,800/pr

Prelude 2-Way Speaker
Transmission-line design with 6½-in woofer and 1⅛-in dome tweeter. Power handling 180 W rms; crossover point 3.8 kHz; FR 34 Hz-25 kHz ±2 dB; sens 92 dB; imp 8 ohms $1,695/pr

Model 403.5 3-Way Speaker
Acoustic-suspension design with 8½-in woofer with 3-in aluminum voice coil, 2-in soft-dome midrange, and 1-in soft-dome tweeter. Power handling 150 W; FR 38 Hz-25 kHz ±3 dB; sens 90 dB; imp 8 ohms. Black. 12 x 21¼ x 10¼ in; 27 lb $845/pr

Piccolo 2-Way Bookshelf Speaker
5-in woofer with 3-in voice coil and 1⅛-in soft-dome tweeter. Power handling 150 W rms; FR 60 Hz-22 kHz ±3 dB; sens 89 dB; imp 6 ohms. 7¼ x 11¼ x 9¼ in $695/pr

REUBEN GUSS ENTERPRISES

Custom Monitor, System I, System II, and System III feature satellite controls on front enclosures. Models IV, V, VI, and VII have only two enclosures.

Custom Monitor Speaker System
8-speaker system with 4 front speakers, each with four 15-in woofers, eight 5-in dome midranges, four 1-in titanium dome tweeters, and fourteen proprietary-design piezo supertweeters; 4 surround satellites, each with two 15-in woofers, five 5-in dome midranges, four 1-in titanium dome tweeters, and twelve proprietary-design piezo supertweeters. Power handling 1,200 W max; FR 15 Hz-35 kHz ±3 dB system; imp 8 ohms. Front: 30 x 72 x 20 in. Surround: 22 x 72 x 16 in $100,000
System I Monitor. As above, 2 front speakers and 2 surround speakers. Imp 4 ohms $50,000

System II Symphony Speaker System
4-speaker system with two front speakers, each with two 15-in woofers, two 5-in dome midranges, one 1-in titanium dome tweeter, and four proprietary-design piezo supertweeters; two surround speakers, each with one 5-in midrange, one 1-in titanium-dome tweeter, and two piezo supertweeters. Power handling 450 W max; FR 18 Hz-35 kHz ±3 dB system; imp 4 ohms. Front: 22 x 54 x 20 in. Surround: 8 x 25 x 8 in $18,000
System III Concerto. As above, but with 12-in woofers $14,000

System V Sonata 4-Way Speaker
15-in woofer, 5-in midrange, 1-in titanium dome tweeter, and custom piezo supertweeter. Power handling 270 W max; FR 20 Hz-30 kHz ±3dB; imp 8 ohms. 18 x 28½ x 15 in $7,500/pr

System IV Concerto 4-Way Speaker
12-in woofer, 5-in midrange, 1-in titanium dome tweeter, and custom piezo supertweeter. Power handling 200 W max; FR 25 Hz-30 kHz ±3 dB; imp 8 ohms. 14½ x 25 x 11¼ in $6,000/pr
System IV Studio-Monitor. As above, 10-in woofer. FR 30 Hz-30 kHz ±3 dB $5,000/pr

System VII Mini-Monitor 2-Way Speaker
8-in woofer and 1-in titanium dome tweeters. Power handling 120 W max; FR 38 Hz-30 kHz ±4 dB; imp 8 ohms. 10 x 14⅞ x 7¼ in $2,400/pr

REVOX

Scala 3.6 3-Way Speaker
Bass-reflex design with four 6-in woofers, one 6-in midrange, and one 1-in silk-woven-dome tweeter. Digital-crossover design with patented negative-output-impedance amps. Digital AES SPDIF/RCA input. Volume, EQ, and balance controls. Includes remote control. Power handling 800 W; FR 31 Hz-20 kHz ±3 dB. Hand-rubbed French cherrywood. 7 x 74 x 10 in; 106 lb $13,500/pr
DLC-1. A/D converter with 4 analog and 3 digital inputs for above $2,600

Emetric 220 3-Way Speaker
Bass-reflex design with two 6-in aluminum woofers, one 6-in aluminum midrange, and one 1-in aluminum-dome tweeter. Gold-plated triampable terminals. Power handling 220 W max; FR 32 Hz-20 kHz ±3 dB; sens 88 dB; imp 6 ohms. Beechwood or black ash with silver baffle. 5-yr warranty. 8 x 53 x 14 in; 70 lb $4,395/pr

Emetric 160 2-Way Speaker
Bass-reflex design with two 6-in aluminum woofers and one aluminum-dome tweeter in D'Appolito array. Gold-plated biampable terminals. Power handling 160 W max; FR 35 Hz-20 kHz ±3 dB; sens 88 dB; imp 6 ohms. Beechwood or black ash with silver baffle. 5-yr warranty. 8 x 53 x 14 in; 43 lb $2,795/pr

Elegance Active SW Powered Subwoofer
Bass-reflex design with two 6-in woofers; amp rated at 150 W. Speaker-level input. Crossover point variable from 95-120 Hz; FR 30-95 Hz ±3 dB; sens 88 dB. Beechwood or brushed aluminum. 18 x 18 x 20 in; 40 lb $1,695

Emetric Shelf 2-Way Bookshelf Speaker
Bass-reflex design with 7-in aluminum woofer and 1-in aluminum-dome tweeter. Gold-plated inputs. Vertical or horizontal placement. Power handling 120 W max; FR 42 Hz-20 kHz ±3 dB; sens 88 dB; imp 8 ohms. Beechwood or black ash with silver baffle. 5-yr warranty. 9 x 15 x 12 in; 17 lb $1,495/pr
Floor stand for above $599

Reference Revelation I

Elegance Subwoofer
Bass-reflex design with two 5-in cone woofers. Gold-plated inputs. Horizontal or vertical placement. Power handling 160 W; FR 38-110 Hz ±3 dB; sens 88 dB; imp 6 ohms. Beechwood or brushed aluminum. 5-yr warranty. 5 x 20 x 14 in; 20 lb $1,395/pr

Elegance Column 2-Way Speaker
Transmission-line design with two 3-in woofers and one 1-in aluminum-dome tweeter in D'Appolito array. Magnetic shielding. Gold-plated inputs. Power handling 90 W; FR 55 Hz-20 kHz ±3 dB; sens 88 dB; imp 8 ohms. Beechwood or brushed aluminum. 5-yr warranty. 4 x 44 x 4 in; 20 lb $1,395/pr
Elegance Shelf. As above, bookshelf version; bass-reflex design. FR 60 Hz-20 kHz ±3 dB. 4 x 13 x 8 in $899/pr
Elegance Center 2-Way Center-Channel Speaker. As above, two 4-in cone woofers. Horizontal or vertical placement. Power handling 120 W; FR 45 Hz-20 kHz ±3 dB. 18 x 6 x 9 in; 20 lb $599

Piccolo Cube 2-Way Bookshelf Speaker
Coaxial bass-reflex design with 4-in cone woofer with 1-in dome tweeter. Point-source driver configuration. Power handling 75 W; FR 50 Hz-20 kHz; sens 87 dB; imp 4 ohms. White or aluminum. 5-yr warranty. 6 x 6 x 6 in; 8 lb $695/pr

Unisub Subwoofer
Bass-reflex design with two 6-in drivers. Gold-plated 3-way input and output. Power handling 160 W; FR 38-120 Hz ±3 dB; sens 88 dB; imp 6 ohms. Simulated black ash. 5-yr warranty. 22 x 11 x 11 in; 20 lb $499

ROBERTS ARCHITECTURAL

RA850 2-Way In-Wall Speaker
8-in polypropylene woofer and ¾-in ferrofluid-cooled dome tweeter. Power handling 100 W rms; FR 28 Hz-30 kHz ±3 dB; sens 90 dB; impedance 8 ohms $750/pr
RA820. As above,power handling 80 W rms; FR 35 Hz-30 kHz ±3 dB $525/pr

RA800 2-Way In-Wall Speaker
8-in polymer-coated woofer and ¾-in soft-dome tweeter. Power handling 80 W rms; FR 35 Hz-22 kHz ±3 dB; sens 90 dB; imp 8 ohms $450/pr

RA8SW In-Wall Subwoofer
8-in dual-voice-coil woofer. 6-dB/oct high-pass and 12-dB/oct low-pass filters. Power handling 100 W rms; crossover point 150 Hz; FR 30-150 Hz ±3 dB; sens 89 dB; imp 8 ohms $425

RA620 2-Way In-Wall Speaker
6½-in polymer-coated woofer and ¾-in soft-dome tweeter. Power handling 75 W rms; FR 50 Hz-30 kHz ±3 dB; sens 89 dB; imp 8 ohms $370/pr

MP280 2-Way In-Wall Speaker
8-in polymer-coated woofer with 1½-in aluminum voice coil and ¾-in dome tweeter. Power handling 100 W rms; FR 45 Hz-20 kHz ±3 dB; sens 89 dB; imp 8 ohms $300/pr

RA600 2-Way In-Wall Speaker
6½-in woofer and ¾-in dome tweeter. Power handling 70 W rms; FR 50 Hz-22 kHz ±3 dB; sens 89 dB; imp 8 ohms $300/pr

MP260 2-Way In-Wall Speaker
6½-in polypropylene-cone woofer and ¾-in dome tweeter. Power handling 70 W rms; FR 55 Hz-20 kHz ±3 dB; sens 90 dB; imp 8 ohms $275/pr

MP8SW In-Wall Stereo Subwoofer
Two 8-in polymer-coated woofers with 1½-in diameter aluminum voice coils. 12-dB/oct low pass filter at 150 Hz. Power handling capability 150 W rms; FR 35-150 Hz ±3 dB; sens 90 dB; imp 4 ohms $250/pr

ROCK SOLID SOUNDS

Solid Solutions Home Theater System
Six-speaker package with Solid PB 100 powered subwoofer, Solid C 100 center-channel speaker, and four Solid S 100 satellites. Black or white finish $999

Solid PB 100 Powered Subwoofer
Bass-reflex design with down-firing 10-in woofer; 70-W amp. High- and low-pass filters; magnetic shielding. 2 line-level inputs and outputs; 2 speaker-level inputs and outputs. Level adjust; phase switch. FR 32-80 Hz ±3 dB. Black vinyl. 5-yr warranty. 13⅛ x 16⅜ x 15¾ in; 27 lb $450

Solid Monitor 2-Way Bookshelf Speaker
Bass-reflex design with 5-in fiber-cone woofer and 1-in fluid-cooled tweeter. Overload protection; magnetic shielding. Includes integral stand. Power handling 150 W max; crossover point 3.5 kHz; FR 75 Hz-20 kHz ±3 dB; sens 91 dB; imp 8 ohms. Black or white. 6½ x 9⅜ x 6 in; 5 lb $300/pr
Solid Pro. As above with 70-V line transformer. 0.5-, 1-, 1.9-, 3.8-, 7.5- or 15-W outputs $375/pr

Solid HCM-1 2-Way Bookshelf Speaker
Bass-reflex design with 5-in copolymer woofer and 1-in fluid-cooled tweeter. Overload protection; magnetic shielding. Includes integral stand. Power handling 150 W max; FR 70 Hz-20 kHz ±3 dB; sens 89 dB; imp 8 ohms. Black or white. 6½ x 9⅜ x 6 in; 5 lb $200
Solid HCM-2. As above, 4-in woofer. Includes wall bracket. Power handling 75 W; FR 80 Hz-20 kHz ±3 dB; sens 87 dB. 5½ x 8 x 5½ in; 4 lb $200/pr

Solid S 100 2-Way Bookshelf Speaker
Bass-reflex design with 4-in woofer and 1-in tweeter. Overload protection; magnetic shielding. 2 spring binding posts. Includes internal wall bracket and shelf mount. Power handling 100 W; crossover point 3.5 kHz; FR 95 Hz-20 kHz ±3 dB; sens 89 dB; imp 8 ohms. Black or white. 5-yr warranty. 8⅛ x 10⅛ x 3½ in $200/pr
Solid ST 100. Contoured-metal stand for above. 5 lb $150/pr

Solid C 100 2-Way Center-Channel Speaker
Bass-reflex design with two 4-in woofers and one 1-in tweeter. Overload protection; magnetic shielding. 2 spring binding posts. Power handling 100 W; crossover point 3 kHz; FR 95 Hz-20 kHz ±3 dB; sens 90 dB; imp 8 ohms. Black or white. 5-yr warranty. 16½ x 5½ x 5¾ in; 7 lb $150

ROCKUSTICS

The following, except Shintone and COM-360A, are camouflaged as rocks. All models are weatherproof and feature field-serviceable drivers, military-spec metal-cadmium plating, and stainless-steel mounting hardware. Custom colors are available.

Rockolyth 2-Way Outdoor Speaker
Two 8-in long-throw polypropylene woofers and one 1-in ferrofluid-cooled soft-dome tweeter. Power handling 200 W; FR 38 Hz-20 kHz ±2 dB; sens 92 dB; imp 8 ohms. 40 x 22 x 18 in; 220 lb . . .$3,800/pr
Hillside. As above, FR 41 Hz-19 kHz ±2 dB. 26 x 18 x 26 in; 85 lb $1,800/pr

BP Sub Outdoor Subwoofer
Two 10-in long-throw polypropylene woofers. Power handling 700 W; FR 25-150 Hz ±2 dB; sens 97 dB; imp 4 ohms. 15 x 36 x 28 in; 320 lb $3,600

Sub Rock Outdoor Subwoofer
15-in long-throw dual-voice-coil polypropylene woofer. Power handling 150 W/coil; FR 37-125 Hz ±3 dB; imp 5 ohms. 33 x 12 x 37 in; 250 lb . . .$1,800

COM-360A 2-Way Outdoor Speaker
8-in long-throw polypropylene woofer and 1-in ferrofluid-cooled tweeter. Cylindrical enclosure; base rests on ground; 24-dB/oct crossover. Power handling 100 W; crossover point 28 kHz; FR 47 Hz-16 kHz ±3 dB; sens 92 dB; imp 5 ohms. 20 x 17 x 20 in; 40 lb $1,400/pr

Stonehenge II 2-Way Speaker
8-in long-throw polypropylene woofer and 1-in ferrofluid-cooled tweeter. Power handling 150 W cont; FR 60 Hz-18 kHz ±2.5 dB; sens 93 dB; imp 6 ohms. 17¼ x 14½ x 14½ in; 48 lb $1,400/pr

Stonewall 2-Way Outdoor Speaker
6½-in long-throw polypropylene woofer and 1-in ferrofluid-cooled soft-dome tweeter. Designed to be placed in stone wall such as fireplace or rock-retaining wall. Power handling 150 W/coil; FR 69 Hz-19 kHz ±2 dB; sens 89 dB; imp 8 ohms. 26 x 10½ x 6¼ in; 25 lb $1,000/pr

Punk Sub Outdoor Subwoofer
Two 8-in long-throw polypropylene woofers. Can be ordered with 2-way passive crossover at either 100 or 115 Hz. Power handling 100 W/driver; FR 39-115 Hz; imp 4 ohms/driver. 21 x 29 x 18 in; 80 lb . . .$970

Rocky Jr. 2-Way Outdoor Speaker
6½-in long-throw polypropylene woofer and 1-in ferrofluid-cooled soft-dome tweeter. Power handling 100 W cont; FR 69 Hz-19 kHz ±2 dB; sens 89 dB; imp 8 ohms. 20 x 16 x 10½ in; 39 lb . . .$940/pr

Octorock 2-Way Outdoor Speaker
Coaxial design with 8-in long-throw polypropylene woofer and 1-in ferrofluid-cooled tweeter. Power handling 100 W cont; crossover point 4 kHz; FR 55 Hz-20 kHz ±4 dB; sens 92 dB; imp 8 ohms. 16 x 12½ x 12¼ in; 36 lb $800/pr

Surround Stone Outdoor Speaker
360° horizontal and 0°-45° vertical dispersion. Power handling 75 W; FR 53 Hz-20 kHz ±5 dB; sens 90 dB; imp 4 ohms. 15 x 12½ x 13 in; 39 lb . . .$740/pr
Shintone Outdoor Speaker. As above, pagoda-style enclosure. 15 x 16½ x 15 in $850/pr

Rocky Too 2-Way Outdoor Speaker
Coaxial design with 6½-in long-throw polypropylene woofer and 1-in ferrofluid-cooled tweeter. Power handling 100 W cont; crossover point 4.5 kHz; FR 69 Hz-19 kHz ±3 dB; sens 89 dB; imp 8 ohms. 21¾ x 11½ x 12 in; 38 lb $740/pr
Soundstone Outdoor Speaker. As above, 14½ x 11¾ x 11½ in $740/pr

Pavarocci 2-Way Outdoor Speaker
Coaxial design with 8-in long-throw polypropylene woofer and 1-in liquid-cooled tweeter. Power handling 70 W; imp 4 ohms. 16 x 13½ x 12½ in; 16 lb $600/pr

Planter 2-Way Outdoor Speaker
5¼-in long-throw polypropylene-cone woofer and 1-in tweeter. Power handling 75 W; FR 76 Hz-20 kHz ±5 dB; imp 4 ohms. Terra-cotta finish. 27 x 8½ x 12¼ in; 20 lb $580/pr

Tunestone 2-Way Outdoor Speaker
Coaxial design with 8-in long-throw polypropylene woofer and 1-in ferrofluid-cooled tweeter. Power handling 70 W; FR 55 Hz-20 kHz ±6 dB; sens 92 dB; imp 4 ohms. 14 x 16 x 8 in; 18 lb $530/pr

Rocquette 2-Way Outdoor Speaker
Coaxial design with 6½-in long-throw polypropylene woofer and 1-in liquid-cooled tweeter. Power handling 70 W; impedance 4 ohms. 16½ x 11 x 9 in; 14 lb $500/pr

Econorock II 2-Way Outdoor Speaker
Coaxial design with 6½-in long-throw polypropylene woofer and 1-in liquid-cooled tweeter. Power handling 70 W; imp 4 ohms. 14 x 10½ x 9¼ in; 11 lb $450/pr

Rocky III 2-Way Speaker
Coaxial design with 6½-in long-throw polypropylene woofer and 1-in liquid-cooled tweeter. Power handling 70 W. 10½ x 14 x 11 in; 17 lb $400/pr

PunkRock 2-Way Outdoor Speaker
Coaxial design with 5¼-in long-throw polypropylene woofer and 1-in liquid-cooled tweeter. Power handling 75 W; FR 76 Hz-19.5 kHz ±5 dB; sens 91 dB; imp 4 ohms. 10½ x 8¼ x 9½ in; 15 lb . . .$380/pr

ROHRER ACOUSTIC DESIGN

Rohrer Reference Home Theater System
6-speaker package with 2 Rohrer Reference Line Source speakers and 4 Rohrer Reference Subwoofers $42,500

Reference Line Source 2-Way Hybrid Ribbon Speaker
Twelve 6-in woofers and sixteen 3-in ribbon tweeters. Power handling capability 1,200 W; FR 40 Hz-40 kHz; sens 96 dB; imp 4 or 8 ohms. 14 x 80 x 12 in $31,900/pr

Model Reference Subwoofer
Two 15-in woofers. Power handling 200 W; FR 16-125 Hz; sens 92 dB; imp 4 ohms. Height 80 in. Diameter 25 in $5,900/pr

Model 2602D 2-Way Hybrid Ribbon Speaker
Two 6-in woofers and one 3-in ribbon tweeter. Power handling 200 W; FR 30 Hz-30 kHz; sens 92 dB; imp 4 ohms. 9 x 48 x 12 in $3,600/pr

Model 2702D KTT 2-Way Speaker
Two 7-in woofers and one 1-in dome tweeter. Power handling 100 W; FR 40 Hz-35 kHz; sens 95 dB; imp 8 ohms. 12 x 25 x 15 in $2,995/pr

Model 212PR Subwoofer
Two 12-in woofers with passive radiator. Power handling 200 W; FR 16-125 Hz; sens 90 dB; imp 8 ohms. 24 x 24 x 24 in $1,595/pr

Model 10 Subwoofer
10-in woofer. Power handling 100 W; FR 30-125 Hz; sens 89 dB; imp 4 ohms. 18 x 18 x 18 in .$995

Model 802 2-Way Speaker
8-in woofer and 1-in dome tweeter. Power handling 50 W; FR 40 Hz-25 kHz; sens 88 dB; imp 8 ohms. 10 x 19 x 12 in $995/pr

ROSSMAN AUDIO

SA.1a 2-Way Powered Speaker
Bass-reflex design with 6½-in polypropylene-cone woofer and 1-in dome tweeter; amp rated at 50 W rms. Bass, treble, and volume controls; tone-defeat switch. FR 50 Hz-20 kHz ±3 dB. Textured black-fleckstone finish. 3-yr warranty . . .$650/pr
SA.5a. As above, 5-in woofer. FR 55 Hz-20 kHz ±3 dB $550/pr

RUARK

Excalibur 3-Way Speaker
Bass-reflex design with two 9-in woofers, one 3-in midrange, and one 1-in dome tweeter. Power handling 25 W min, 300 W max; crossover points 600 Hz and 4 kHz; FR 30 Hz-20 kHz ±3 dB; sens 88 dB; imp 8 ohms. Walnut, natural cherry, and black ash finish; black knit grille. 12 x 49 x 20½ in; 176 lb $15,000/pr

Solstice 3-Way Speaker
Bass-reflex design with two 7-in paper-cone woofers, two 3-in fabric-dome midranges, and one ¾-in fabric-dome tweeter. 3 pairs of biampable or triampable terminals. Power handling 25 W min, 250 W max; FR 40 Hz-20 kHz; sens 89 dB; imp 8 ohms. Walnut, rosewood, black ash, or natural cherry finish. 10¼ x 44⅜ x 16½ in; 110 lb $9,500/pr

Accolade 3-Way Speaker
Bass-reflex design with 11-in woofer, 3-in dome midrange, and 1-in dome tweeter. Power handling 200 W; FR 35 Hz-20 kHz ±3 dB; imp 8 ohms. Black walnut finish; black knit grille. 11½ x 39 x 15 in; 176 lb $6,000/pr

Equinox 2-Way Speaker
Bass-reflex design with 6½-in woofer and 1-in dome tweeter. Includes stands. Power handling 150 W; FR 45 Hz-20 kHz ±3 dB; imp 6 ohms. Walnut, oak, black finish. 10 x 34½ x 13 in; 132 lb $4,000/pr

Crusader II 3-Way Speaker
Bass-reflex design with 6½-in woofer, 3-in dome midrange, and 1-in dome tweeter. Power handling 150 W; FR 45 Hz-20 kHz ±3 dB; sens 88 dB; imp 6 ohms. Black, natural cherry, rosewood, or walnut; black knit grille. 9 x 35½ x 12½ in; 132 lb . . .$3,300/pr

Solace 2-Way Speaker
Bass-reflex design with 5½-in doped-paper-cone woofer and ¾-in fabric-dome tweeter. 2 pairs of biampable terminals. Power handling 120 W max; crossover point 3.5 kHz; FR 55 Hz-20 kHz; sens 87 dB; imp 8 ohms. Walnut, rosewood, black ash, or natural cherry. 8¾ x 13 x 13 in; 33 lb $2,300/pr

Solace 2-Way Speaker
Infinite-baffle design with 3-in woofer and 1-in dome tweeter. Power handling 120 W; FR 50 Hz-20 kHz ±3 dB; imp 8 ohms. Walnut, rosewood, walnut, natural cherry or black finish. 11½ x 17 x 15 in; 48 lb $2,000/pr

Prologue One 2-Way Speaker
Bass-reflex design with 5-in woofer and 1-in dome tweeter. Power handling 120 W; FR 45 Hz-20 kHz ±3 dB; sens 89 dB; imp 8 ohms. Natural cherry, rosewood, walnut or black ash finish; black knit grille. 7 x 35 x 11 in; 80 lb $1,900/pr

Talisman II 2-Way Speaker
Bass-reflex design with 6½-in woofer and 1-in dome tweeter. Power handling 100 W; FR 46 Hz-20 kHz ±3 dB; sens 88 dB; imp 8 ohms. Rosewood, walnut, natural cherry, or black finish; black knit grille. 9 x 33 x 12½ in; 88 lb $1,700/pr
Sceptre. As above, FR 50 Hz-20 kHz ±3 dB. 8 x 15 x 10½ in; 40 lb $1,300/pr
Icon. As above, 5-in woofer. FR 58 Hz-20 kHz ±3 dB. 7 x 14 x 10 in; 26 lb $799/pr
Epilogue. As above, 5½-in woofer. FR 50 Hz-20 kHz ±3 dB; sens 87 dB. 6½ x 11 x 8 in; 17 lb . . .$499/pr

Templar II 2-Way Speaker
Infinite-baffle design with 6½-in woofer and 1-in dome tweeter. Power handling 100 W; FR 55 Hz-20 kHz ±3 dB; sens 88 dB; imp 8 ohms. Black, rosewood or natural cherry finish; black knit grille. 7½ x 27½ x 10 in; 57 lb $1,300/pr

Ethos 2-Way Speaker
Bass-reflex design with 6¾-in paper-cone woofer and ¾-in fabric-dome tweeter. Magnetic shielding. Biampable terminals. Power handling 20 W min, 100 W max; FR 50 Hz-20 kHz; sens 88 dB; imp 8 ohms. Walnut, rosewood, black ash, or natural cherry. 8 x 33½ x 9 in; 33 lb $1,050/pr

Dialogue One 2-Way Center-Channel Speaker
Infinite-baffle design with two 5-in woofers and 1-in dome tweeter. Power handling 120 W; FR 65 Hz-20 kHz ±3 dB; sens 89 dB; imp 6 ohms. Black, natural cherry, walnut or rosewood finish; black knit grille. 19 x 7 x 8 in; 17 lb $599

RUSSOUND

SP650.1 2-Way In-Wall Speaker
Bass-reflex design with 6½-in polymer woofer with butyl surround and 1-in silk-dome tweeter. Swivel tweeter. Power handling 10 W min, 60 W max; FR 58 Hz-21 kHz; sens 90 dB; imp 8 ohms. White finish with paintable metal grille. 5-yr warranty. Rectangular frame. Mounting area: 8⅝ x 12 in. Mounting depth 3 in $350/pr

SCAN AMERICAN

SD Series
The following use an infinite-baffle design. The woofers have impregnated paper cones and employ a patented system that allows for equal movement and reaction time from both positive and negative impulses. Tweeters are made of impregnated cloth with a double chamber and series-coupled double acoustic damping on the dome back.

SD-Four 2-Way Speaker
6-in woofer and ¾-in soft-dome tweeter. FR 25 Hz-20 kHz; sens 89 dB. Black oak, oak, or walnut veneer. 12 x 19 x 10 in $1,650/pr
SD-Three. As above, bookshelf version. FR 40 Hz-20 kHz. 10 x 16 x 8 in $1,250/pr
SD-Two. As above, 5-in woofer. FR 50 Hz-20 kHz. 8 x 12 x 7 in $950/pr

SD-One 2-Way Bookshelf Speaker
4-in woofer and ¾-in soft-dome tweeter. FR 60 Hz-20 kHz; sens 90 dB. Walnut veneer. 6 x 9 x 7 in $650/pr

SA Series
The following have a tuned enclosure, a polymer-treated paper woofer, a hand-assembled individually-damped soft-dome tweeter, a custom hand-made crossover with phase correction, 5-way gold-plated binding posts, and a handcrafted wood cabinet with black-lacquer paint. They carry a 10-year parts warranty on the crossover and drivers.

SA-2.8 2-Way Bookshelf Speaker
Infinite-baffle design with 8-in woofer and soft-dome tweeter. Power handling 100 W max; crossover point 1.2 kHz; FR 30 Hz-22 kHz; sens 90 dB. 11 x 19 x 7¾ in $550/pr

SA-2.6 2-Way Bookshelf Speaker
Bass-reflex design with 6-in woofer and soft-dome tweeter. Power handling 75 W max; crossover point 2 kHz; FR 40 Hz-22 kHz; sens 87 dB. 9½ x 16 x 6¾ in $450/pr

SA-2.5 2-Way Bookshelf Speaker
Bass-reflex design with 5¼-in woofer and soft-dome tweeter. Power handling 50 W max; crossover point 2 kHz; FR 55 Hz-20 kHz; sens 86 dB. 8 x 13½ x 6¾ in $350/pr

SHAHINIAN

Rosewood, bird's-eye maple, mahogany, and other exotic wood finishes available, price quoted at time of order. Dark brown or black cloth grilles standard, with almond, light brown, or bone available at extra cost.

Diapason Module 4-Way Speaker
Four 5¼-in curved polypropylene-cone woofers with 1-in voice coils, two ½-in titanium-dome midranges, two ¾-in cambric-dome tweeters, and six ½-in W-shaped titanium-dome supertweeters. Designed to fit atop the Double Eagle subwoofer. Cabinet constructed of 13-ply Finland Birch, and shaped as an asymmetric prism with unequal rakes fore and aft, and equal rakes left and right; woofers have 20-oz ceramic magnet; midranges have special east/west magnet structure; low tweeters have phase-correcting faceplate and third-order filters for minimum phase function; Kimber 4tc internal wiring with low-flux pure solder. 2 input filter choices, or direct bypass for electronic crossover and biamp function; wall-mountable at some distance from subwoofer. Biwiring and twin amplification optional. Power handling 800 W max; FR 125 Hz-22 kHz ±3 dB; sens 89 dB; imp 6 ohms. 22 x 7 x 15¾ in; 33 lb $5,500/pr

Double Eagle Stereo Subwoofer
Hybrid transmission-line design with two 8-in polypropylene curvilinear-cone woofers and passive radiator bass chamber. Woofers with 1½-in high-temperature patented voice coils, 34-oz ceramic magnets, and magnesium baskets; 3/4-in Finland birch cabinet; built-in 140 Hz/280 Hz 18 dB passive filters may be bypassed for biamping. 5-way binding posts. Bridgeable into mono mode for double-unit operation or stacked for quadruple high-power function. 3-position passive input filter module optional. Power handling 300 W; FR 23-140 Hz, or 23-280 Hz ±3 dB; sens 86 dB; imp 6 ohms. Sits on 4 twin-wheel casters. Santos rosewood or bird's-eye maple finish. 23 x 32 x 15 in; 105 lb $4,800/pr
Walnut or oak finish $3,800/pr

Hawk Subwoofer
Hybrid transmission-line design with 8-in curved-polypropylene cone woofer with rear-firing 10-in passive radiator. Designed for use with Hawk module. ¾-in enclosure. Crossover bypass. Power handling 250 W; crossover point selectable at 125 and 250 Hz; FR 25-250 Hz; sens 87 dB; imp 6 ohms. Rosewood finish. 12 x 17 x 30 in; 60 lb . . .$3,000/pr
As above, cherry finish $2,600/pr
As above, oak or walnut finish $2,400/pr

Hawk Module 2-Way Speaker
Four 4½-in curved polypropylene-cone woofers with 1-in voice coils and four 1-in titanium-neodymium tweeters. Designed for use with Hawk subwoofer and Double Eagle. Cabinet shaped as an asymmetrical prism with unequal rakes fore and aft, and equal rakes left and right; woofers with 10-oz ceramic magnets; 1-in tweeters feature high-efficiency neodymium magnets; mixture of first- and third-order filters (6 and 18 dB) for minimum phase shift; 250-Hz input filter may be bypassed for use with other subwoofers; Kimber 4tc internal-wiring with low-flux pure solder. Direct bypass for electronic crossover optional. Power handling 600 W max; FR 250 Hz-22 kHz ±3 dB; sens 87 dB; imp 6 ohms. 40 lb $3,000/pr

Arc 3-Way Speaker
Rear-mounted passive radiator; 8-in polypropylene curvilinear cone woofer with 1½-in high-temperature patented voice coils, 1⅜-in titanium ultralight exposed-dome midrange, and 1-in titanium-neodymium supertweeter. Woofer with 28-oz ceramic magnet and magnesium basket; filters at 6 dB woofer, 18 dB midrange, 18 dB tweeter. Dual binding posts. Power handling 250 W; FR 28 Hz-18 kHz ±3 dB; sens 88 dB; imp 6 ohms. Black finish. 14 x 27½ x 9¾ in; 43 lb $2,100/pr
Light/medium oak or walnut finish $1,950/pr

Compass 2-Way Speaker
6½-in composite cone woofer and 1-in neodymium-titanium tweeter. Floor-standing vertical enclosure with multi-chambered pressure loading; drivers mounted on diamond-shaped angled baffle. Power handling 200 W max; FR 40 Hz-18 kHz; sens 89 dB; imp 6 ohms. Available in oak, walnut, Finland birch, and other exotic woods. 10 x 10 x 34 in; 66 lb $1,550/pr

Starter 2-Way Speaker
6½-in composite-cone woofer and 1-in neodymium-titanium tweeter. 1 set input binding posts. Power handling 150 W; FR 45 Hz-18 kHz; sens 88 dB; imp 6 ohms. Stained or painted Finland birch. 5-yr warranty. 10 x 26 x 10 in; 18 lb $1,000/pr

Super Elf 2-Way Speaker
Bass-reflex design with 5½-in curved polypropylene-cone woofer and 1-in ferrofluid-damped titanium dome tweeter. 13-ply Finland birch with cross-braced enclosure; Polyfil and long-haired lamb's wool damping; woofer with 1-in voice coil, cast housing, and 20-oz motor; 6-dB woofer rolloff, 18-dB tweeter filters. Solid-brass gold-plated 8-way binding posts. Power handling 150 W max; FR 48 Hz-19.5 kHz; sens 87 dB; imp 6 ohms. Oak or walnut finish. 8¼ x 14¾ x 9½ in; 33 lb $850/pr

SHERWOOD

The following include speaker wires, a system setup videocassette, wire ID tags, and shelf-mountable wire guides.

HTS-1000 Powered Home Theater System. RV-4050R 170-W A/V receiver; 6½-in powered sub-

woofer with 50-W amp and EQ controls; front left/right speakers and one center speaker, each with 4-in woofer and 2-in tweeter; two surround speakers each with 4-in full-range driver. Magnetic shielding on front and center speakers. RMC-10 universal remote control. FR 30 Hz-20 kHz; sens 90 dB; imp 8 ohms $449
HTS-3000. As above, RV-5050R A/V receiver; 3 video inputs; 5 audio inputs; headphone jack. RMC-20 universal remote control $799
HTS-110. As HTS-1000, with 6½-in passive subwoofer $399

SIGNATURE TECHNOLOGIES

SRM Series

The following have gold-plated binding posts, no. 12 OFC wiring, oak hardwood caps, and a 2-year limited warranty. Custom hardwood finishes are available at an extra cost. Magnetic shielding is optional at no extra cost.

SRM-.9 3-Way Speaker
3-subenclosure design with two 10-in long-throw mass-loaded polypropylene woofers in sealed subenclosure, one 6½-in mass-loaded woofer in isolated-dampened subenclosure, and one 1-in acoustically-treated-textile soft-dome tweeter. 3rd-order high-pass Butterworth filter; specialized damping throughout; cross-braced enclosures; hand-matched and hand-tuned components. Biampable terminals. Power handling 100 W rms; FR 22 Hz-24 kHz ±3 dB; sens 90 dB; imp 4 ohms. 13½ x 65 x 18¼ in; 165 lb $6,500/pr

SRM-1.5 Powered Speaker
2-enclosure design with lower enclosure containing 10-in long-throw mass-loaded polypropylene woofer with 150-W amp; upper enclosure with 6½-in butyl rubber surround mass-loaded woofer; 1-in soft-dome textile tweeter. High/mid-pass section 3rd-order Butterworth filter; low-pass section 3rd-order variable crossover. FR 22 Hz-24 kHz ±3 dB. Oak-hardwood caps with black cloth-wrapped enclosure. 46¾ x 13½ x 19 in; 145 lb $3,495/pr

SRM-2.1 2-Way Speaker
Dual-chamber bass-reflex design with 6-in polypropylene woofer with 1-in voice coil; 1-in textile dome tweeter. 3rd-order Butterworth filter. Power handling 150 W max; FR 33 Hz-25 kHz ±3 dB; sens 90 dB; imp 4 ohms. Solid-oak hardwood caps with black-cloth enclosure. 5-yr limited warranty. 8½ x 40 x 13 in; 56 lb $1,499/pr

SRM-5.1 2-Way Bookshelf Speaker
Bass-reflex design with 6-in polypropylene woofer with 1-in voice coil; 1-in textile-dome tweeter. Hand-matched components; 18-dB/oct Butterworth filter. Power handling 150 W max; FR 33 Hz-25 kHz ±3 dB; sens 90 dB; imp 4 ohms. Solid-oak hardwood caps with black-cloth enclosure. 5-yr limited warranty. 8½ x 21½ x 13 in; 25 lb ...$699/pr

SRM-7.1 2-Way Bookshelf Speaker
Acoustic-suspension design with 6-in polypropylene woofer with 1-in voice coil and ¾-in polycarbonate-dome tweeter. 6-dB/oct filter. Power handling 100 W max; FR 60 Hz-20 kHz ±3 dB; sens 89 dB; imp 4 ohms. Solid-oak hardwood caps with cloth-wrapped enclosure. 5-yr limited warranty. 8½ x 14¾ x 9¼ in; 19 lb $499/pr

In-Wall Speaker Series

The following have a cloth-wrapped soft-edged sculptural design and may be ordered with a custom fabric color. Each includes mounting hardware and templates.

Profile 3 2-Way In-Wall Speaker
8-in polypropylene woofer and ¾-in polycarbonate-dome tweeter. 6-dB/oct high-pass filter. Power handling 100 W; FR 60 Hz-20 kHz ±3 dB; sens 89 dB; imp 4 ohms. 2-yr limited warranty $499/pr
Profile 1/Profile 2. As above, 6½-in polypropylene woofer. Cutout 11¼ x 8½ in 3.3 lb $399/pr

Profile LF In-Wall Subwoofer
10-in dual-voice-coil woofer. Multiple units may be biamped with the LPF-2 active crossover. FR 32 Hz-2 kHz; sens 91 dB. Cloth-wrapped. 5-yr limited warranty. 12 x 12 x 3⅝ in; 14 lb $299

SIGNET

SL388 4-Way Speaker
Two 8-in aluminum die-cast polypropylene woofers, one 4-in die-cast midrange, and one 1-in aluminum ferrofluid-cooled tweeter. Power handling 150 W rms; FR 30 Hz-20 kHz; sens 91 dB; imp 4 ohms. 10½ x 40 x 11¾ in $1,200/pr

VL310 3-Way Speaker
10-in side-mounted radially-injected carbon-fiber woofer, 6½-in aluminum die-cast polypropylene midrange, and 1-in soft-dome tweeter. Magnetic shielding. Biampable terminals. Power handling 150 W rms; FR 35 Hz-20 kHz; sens 92 dB; imp 4 ohms. 8¼ x 37 x 12½ in $999/pr
VL310B/M. As above with black or mahogany-vinyl finish $850/pr

SL266 2-Way Speaker
Two 6½-in aluminum die-cast woofers with polypropylene cones and rubber surrounds and one 1-in aluminum ferrofluid-cooled tweeter. Magnetic shielding. Power handling 150 W rms; FR 35 Hz-20 kHz; sens 91 dB; imp 8 ohms. Black or green; custom finishes available. 8⅛ x 37 x 12½ in $800/pr

SP200/II Powered Subwoofer
15-in die-cast woofer with polypropylene-cone and rubber surround; 300-W amp. Variable crossover. Gold-plated terminals. FR 40-180 Hz $800

SL260/MkII 2-Way Bookshelf Speaker
6½-in die-cast woofer with polypropylene cone and rubber surround and 1-in aluminum ferrofluid-cooled tweeter. Magnetic shielding. Power handling 150 W rms; FR 45 Hz-25 kHz; sens 87 dB; imp 8 ohms. Black or mahogany vinyl finish. 8⅛ x 15½ x 12¾ in $600/pr

SP100/II Powered Subwoofer
12-in aluminum die-cast woofer; amp rated at 150 W rms. A/V boost. Passive and active inputs; gold-plated input jacks. Selectable crossover; auto on/off. FR 20-180 Hz. 20 x 17 x 20 in $600

VL Birad 2-Way Surround Speaker
Two 5¼-in woofers and two ¾-in ferrofluid-cooled dome tweeters. Power handling 150 W rms; FR 55 Hz-20 kHz; sens 89 dB; imp 4 ohms. High-gloss black finish. 11 x 12½ x 6½ in $540/pr
Birad. As above, black or white finish $400/pr

SP99 Powered Subwoofer
10-in driver; 100-W amp. A/V boost. Passive and active inputs; gold-plated input jacks. Auto on/off. Crossover point selectable; FR 30-180 Hz. 12¼ x 18¼ x 15¾ in $450

SL256 2-Way Bookshelf Speaker
6½-in woofer with polypropylene cones and rubber surround and ¾-in ferrofluid-cooled soft-dome tweeter. Power handling 100 W rms; FR 45 Hz-20 kHz; sens 89 dB; imp 8 ohms. 8⅛ x 13 x 12⅛ in $380/pr
SL252. As above, sens 88 dB. Black or mahogany-vinyl finish. 8⅛ x 12 x 11⅝ in $280/pr
VL252. As above, high-gloss black finish ...$400/pr

VLC266 2-Way Center-Channel Speaker
Two 6½-in aluminum die-cast polypropylene woofers and one 1-in ferrofluid-cooled soft-dome tweeter. Magnetic shielding. Power handling 150 W; FR 50 Hz-20 kHz; sens 90 dB; imp 4 ohms. High-gloss black finish. 20 x 8 x 10 in $325
VLC266B. As above with black-vinyl finish ..$300

VLC50 2-Way Center-Channel Speaker
Two 5¼-in woofers and one ¾-in ferrofluid-cooled silk-dome tweeter. Magnetic shielding. Power handling 75 W; FR 50 Hz-20 kHz; sens 89 dB; imp 6 ohms. 18 x 7 x 9 in $250
SLC50. As above $220
SLC40. As above, two 4-in woofers and one ¾-in ferrofluid-cooled dome tweeter. 20 x 5 x 10 in $189

SL240 2-Way Bookshelf Speaker
5¼-in long-throw woofer and ¾-in ferrofluid-cooled metallized-dome tweeter. Power handling 75 W rms; FR 65 Hz-20 kHz; sens 88 dB; imp 8 ohms. 7 x 10¼ x 6 in $240/pr

SNELL

The following are available in a gloss-black finish or oak, dark oak, and walnut real-wood veneer.

Type A Reference Subwoofer/Satellite System
4-speaker system with two subwoofers, each with 18-in driver; two tower speakers, each with four 6½-in woofers, two 5-in mineral-filled polypropylene-cone midranges, and one 1⅛-in front-firing textile-dome tweeter. Two passive-filter networks. Includes EC-200. Power handling 400 W cont; crossover points 80 Hz, 350 Hz, and 2.8 kHz; FR 17-80 Hz ±2 dB subwoofer, 80 Hz-20 kHz ±1.5 dB tower; sens 90 dB subwoofer and tower; imp 8 ohms $18,999

Type C/V 3-Way Speaker
Two 8-in injection-molded woofers, two 5-in injection-molded cone midranges, one 1-in titanium-dome tweeter, and one 1-in rear-firing 5-layer laminated-dome tweeter. Power handling 250 W cont; crossover points 300 Hz and 2.8 kHz; FR 30 Hz-22 kHz ±3 dB; sens 90 dB; imp 8 ohms $2,599/pr

PS.10 Powered Subwoofer
Bass-reflex design with proprietary 10-in double-spider driver; 300-W amp. Internal variable-electronic crossover; magnetic shielding; 80-Hz high-pass filter. Gold-plated 5-way binding posts speaker inputs and outputs; line- and speaker-level input and output. Auto on/off; phase switch. FR 32-120 Hz ±3 dB. Hand-sanded/painted black finish. 15 x 15½ x 15¾ in $1,200

E.5 Tower 2½-Way Speaker
Bass-reflex design with two 6½-in woofers with copolymer cones and butyl-rubber surrounds with variable-progressive spider and aluminum-shorting cylinder; one 1-in aluminum-dome tweeter; one 1-in rear-firing soft-dome tweeter. 1½-in thick platform baffle; heat sink/terminal plate to draw heat away from inside of cabinet; magnetic shielding. Gold-plated biampable 5-way binding posts. Placement switch to contour crossover for free standing or boundary placement; treble control; rear tweeter on/off switch. Includes 2 gold-plated jumper straps and 4 floor spikes. Power handling 250 W cont; crossover points 250 Hz and 2.4 kHz; FR 32 Hz-20 kHz ±3 dB; sens 89 dB; imp 4 ohms. Hand-sanded/painted black finish or European beech veneer. 5-yr warranty. 8½ x 42½ x 11½ in; 48 lb $700

E.5c 2-Way In-Wall Speaker
Acoustic-suspension design with two 6½-in woofers with copolymer cones and butyl surrounds; one 1-in aluminum-dome tweeter. Magnetic shielding. Boundary-compensation switch; tweeter-level control. Power handling 250 W cont; FR 50 Hz-20 kHz ±3 dB; sens 90 dB; imp 4 ohms. Black paint. 5-yr warranty. Rectangular frame. Mounting area: 16½ x 13½ in. Mounting depth 11 in $700

SR.5 2-Way Bipolar Surround Speaker
Bipolar acoustic-suspension design with one 5¼-in omnidirectional woofer with cast-aluminum basket, copolymer cone, and butyl-rubber surround; two sub-enclosed 3½-in extended-range tweeters with copolymer cones. Hand-tuned crossovers; angled cabinets; tuned to match E.5 Tower and K.5 Monitor. Gold-plated biampable 5-way binding posts. Includes locking mounting bracket and

all mounting hardware. Power handling 150 W cont; crossover point 400 Hz; FR 70 Hz-20 kHz; sens 90 dB; imp 8 ohms. Hand-sanded/painted black or white finish. 5-yr warranty. 6¾ x 13¾ x 7½ in; 12 lb $700/pr

CR.5 2-Way Center-Channel Speaker
Acoustic-suspension design with two 5¼-in cast-aluminum-basket woofers with copolymer cones and butyl-rubber surrounds; one 1-in aluminum-dome tweeter. 1½-in thick platform baffle; tuned to match the E.5 Tower and K.5 Monitor; magnetic shielding. Gold-plated 5-way binding posts. Placement switch to contour crossover for freestanding or boundary placement. Power handling 150 W cont; crossover points 400 Hz and 2.8 kHz; FR 70 Hz-20 kHz ±3 dB; sens 89 dB; imp 8 ohms. Hand-sanded/painted black finish. 5-yr warranty. 17 x 10½ x 9 in; 17 lb $500

K.5 Monitor 2-Way Bookshelf Speaker
Bass-reflex design with 6½-in woofer with copolymer cone and butyl-rubber surround with variable progressive spider and aluminum-shorting cylinder; 1-in aluminum-dome tweeter. 1½-in thick platform baffle; magnetic shielding; heat sink/terminal plate to draw heat away from inside of cabinet. Gold-plated biampable 5-way binding posts. Placement switch to contour crossover for cabinet or stand placement. Includes 2 gold-plated jumper straps. Power handling 200 W cont; crossover point 2.8 kHz; FR 48 Hz-20 kHz ±3 dB; sens 86 dB; imp 8 ohms. Hand-sanded/painted black finish or European beech veneer. 5-yr warranty. 8½ x 18 x 11½ in; 25 lb $450

CLS.5 2-Way Minispeaker
Bass-reflex design with 5¼-in woofer with cast-aluminum basket and copolymer-cone with butyl surrounds; 1-in black-anodized aluminum-dome tweeter. Magnetic shielding; die-cast aluminum cabinet. Includes wall-mounting bracket. Power handling 150 W cont; FR 80 Hz-20 kHz ±2 dB; sens 89 dB; imp 8 ohms. Black or white powder-coated paint. 5-yr warranty. 10½ x 6⅜ x 8⅛ in; 11 lb $375

Type AMC 450 2-Way In-Wall Speaker
6½-in woofer and ½-in ferrofluid-cooled dome tweeter. Power handling 125 W cont; FR 60 Hz-20 kHz ±3 dB; sens 90 dB; imp 8 ohms $280

Type AMC 650 2-Way In-Wall/Ceiling Speaker
6½-in woofer with polypropylene-cone and butyl-surround; ¾-in ferrofluid-cooled titanium-dome tweeter. 20°-angle-mounted tweeter allows for optimum angling for wall or ceiling mounting. Includes paint mask and hole cutting template. FR 65 Hz-20 kHz ±3 dB; sens 88 dB; imp 8 ohms. Paintable white. 5-yr warranty. Round frame $250

Home Theater Systems
The following are THX certified.

Music and Cinema Reference THX Home Theater System
Two Music and Cinema front left/right speakers; one LCR2800 center-channel speaker; two SUR2800 surround speakers; two SUB1800 subwoofers; two passive filter networks; electronic crossover $29,993

MC In-Wall 800 THX Home Theater System
Three LCR 800's for front left/right and center-channel; two SUR850 in-wall surround speakers; two SUB800 in-wall subwoofers $8,093

Home Music and Cinema 500 THX Home Theater System
Three LCR500's for front left/right and center-channel; two SUR500 surround speakers; two SUB550 subwoofers $5,593

Music and Cinema Series
Reference 3-Way THX Speaker
Four 6½-in woofers, two 5¼-in mineral-filled polypropylene-cone midranges, and three 1-in fluid-cooled textile-dome tweeters. THX certified. Power handling 400 W cont; crossover points 350 Hz, 2.8 kHz and 8.5 kHz; FR 80 Hz-20 kHz ±2 dB; sens 90 dB; imp 8 ohms. 15 x 63 x 12 in; 145 lb $6,999
LCR2800. As above, two 8-in mineral-filled polypropylene woofers, two 4¼-in mineral-filled polypropylene-cone midranges $4,799

SUR2800 3-Way THX Surround Speaker
One 8-in injection-molded woofer, two 6½-in mineral-filled polypropylene-cone midranges, and two 1-in aluminum-dome tweeters. THX certified and Dolby AC-3 ready. Power handling 200 W cont; crossover points 120 Hz, 300 Hz and 2.7 kHz; FR 36 Hz-20 kHz ±3dB; sens 86 dB; imp 8 ohms $3,099

SUB1800 THX Subwoofer
4th-order vented design with 18-in driver. THX certified. Power handling 600 W cont; FR 17-80 Hz; sens 88 dB; imp 8 ohms. High-gloss black-veneer finish. 21½ x 45 x 17 in; 180 lb $2,499

SUR850 3-Way In-Wall THX Dipolar Surround Speaker
Dipolar design with two 5¼-in woofers, two 4½-in cone midranges, and two 1-in aluminum-dome tweeters. THX certified. Power handling 150 W cont; crossover points 300 Hz and 2.8 kHz; FR 120 Hz-20 kHz; sens 89 dB; imp 8 ohms $1,599

SUR800 3-Way In-Wall Dipolar Surround Speaker
Dipolar design with one 5¼-in woofer, two 4½-in cone midranges, and two 1-in aluminum-dome tweeters. Power handling 150 W cont; FR 120 Hz-20 kHz; sens 89 dB; imp 8 ohms. Black brushed aluminum finish. 22 lb $1,399

LCR800 2-Way THX In-Wall Speaker
Two 6½-In polypropylene woofers and two ¾-in aluminum-dome tweeters. THX certified. Magnetic shielding. Power handling 150 W cont; crossover point 2,750 Hz; FR 80 Hz-20 kHz ±2 dB; sens 89 dB; imp 8 ohms $1,099
HCC800. As above, horizontal version; not THX-certified $1,099
LCR500. As LCR800, bookshelf version. High-gloss black-veneer finish. 9½ x 22 x 7⅛ in; 35 lb $899
HCC500. As above, horizontal version. Not THX certified $899

SUR500 2-Way THX Dipolar Surround Speaker
Dipolar design with two 6½-in polypropylene woofers and two 1-in aluminum-dome tweeters. THX certified. Power handling 150 W cont; crossover points 300 Hz and 2.7 kHz; FR 120 Hz-20 kHz; sens 86 dB; imp 8 ohms. High-gloss black-veneer finish. 9½ x 16½ x 7⅛ in; 35 lb $899

SUB800 THX In-Wall Subwoofer
Acoustic-suspension design with 12-in driver. THX certified. Power handling 200 W cont; FR 20-80 Hz ±2 dB; sens 90 dB; imp 8 ohms. 14¼ x 53 x 6⅞ in; 70 lb $799

SUB550 THX Subwoofer
12-in driver. THX-certified. Power handling 200 W cont; FR 20-80 Hz ±3 dB; sens 90 dB; imp 8 ohms. 18¾ x 23⅛ x 11½ in; 60 lb $549

SONANCE

DL1200V Powered Subwoofer
12-in front-firing woofer and 15-in downward-facing passive radiator; amp rated at 200 W. Clipping-eliminating compression circuitry. DualLevel switching between A/V signals. FR 25-140 Hz. 20 x 21 x 20 in $999
DL1000V. As above, 10-in woofer, 12-in passive radiator; amp rated at 125 W. FR 30 Hz-140 Hz ±3 dB. 17⅜ x 18⅜ x 17⅜ in $799
DL800V. As above, 8-in woofer, 10-in passive radiator; amp rated at 90 W. FR 35-140 Hz ±3 dB. 14 x 17 x 12⅞ in $649

In-Wall Speaker Series
The following have water-resistant components and hardware.

D8001 3-Way In-Wall Speaker
8-in aluminum-cone woofer with rubber surround, 2½-in aluminum-cone midrange, and 1-in pivoting ferrofluid-cooled aluminum-dome tweeter. 4 DIP switches provide various EQ settings. Power handling 150 W max; FR 33Hz-21kHz; sens 92 dB; imp 6 ohms. Rectangular frame. Mounting area 10 x 16 in. Mounting depth 3½ in $1,799/pr

D7001 3-Way In-Wall Speaker
8-in dual-coil reinforced glass-composite-cone woofer with rubber surround, 2½-in polypropylene-cone midrange, and ¾-in pivoting ferrofluid-cooled aluminum-dome tweeter. 8 DIP switches provide various EQ settings. Power handling 125 W max; FR 33 Hz-21 kHz; sens 91 dB; imp 6 ohms. Rectangular frame. Mounting area 10 x 16 in. Mounting depth 3½ in $1,099/pr

D6001 3-Way In-Wall Speaker
8-in polypropylene-cone woofer with rubber surround, 2½-in polypropylene-cone midrange, and ¾-in pivoting ferrofluid-cooled cloth-dome tweeter. 4 DIP switches provide various EQ settings. Power handling 100 W max; FR 35 Hz-20 kHz; sens 90 dB; imp 8 ohms. Rectangular frame. Mounting area 10 x 16 in. Mounting depth 3½ in $899/pr
T4000. As above, 6½-in dual-voice-coil polypropylene-cone woofer with rubber surround. Power handling 75 W max; FR 40 Hz-20 kHz; imp 6 ohms. Mounting area 8⅛ x 12⅜ in. Mounting depth 3⅛ in $799/pr

D5501 3-Way In-Wall Speaker
8-in polypropylene-cone woofer with rubber surround, 2½-in polypropylene-cone midrange, and ⅝-in pivoting ferrofluid-cooled polycarbonate-dome tweeter. Power handling 100 W max; FR 40 Hz-20 kHz; sens 89 dB; imp 8 ohms. Rectangular frame. Mounting area 10 x 16 in. Mounting depth 3½ in $699/pr

T3500 3-Way In-Wall Speaker
6½-in polypropylene-cone woofer with rubber surround, 2½-in polypropylene-cone midrange, and ⅝-in pivoting ferrofluid-cooled polycarbonate-dome tweeter. FR 45 Hz-20 kHz; sens 90 dB; imp 8 ohms. Rectangular frame. Mounting area 8½ x 12⅛ in. Mounting depth 3⅛ in $539/pr
T3000. As above, power handling 75 W max; FR 55 Hz-20 kHz; sens 89 dB. Mounting depth 3⅛ in $399/pr

M300v 2-Way In-Wall Speaker
4-in woofer and ½-in pivoting polycarbonate-dome tweeter. Magnetic shielding. Power handling 60 W max; FR 65 Hz-20 kHz; sens 88 dB; imp 8 ohms. Rectangular frame. Mounting area 6 x 9 in. Mounting depth 2 in $289/pr

T2000 2-Way In-Wall Speaker
6½-in polypropylene-cone woofer with rubber surround and ⅝-in pivoting ferrofluid-cooled polycarbonate-dome tweeter. Power handling 55 W max; FR 55 Hz-20 kHz; sens 89 dB; imp 8 ohms. Rectangular frame. Mounting area 8⅛ x 12⅛ in. Mounting depth 3⅛ in $275/pr
T1000. As above, power handling 35 W max; FR 60 Hz-20 kHz $199/pr

M200 2-Way In-Wall Speaker
4-in polypropylene-cone woofer and ⅝-in polycarbonate-dome tweeter. Power handling 50 W max; FR 70 Hz-20 kHz; sens 87 dB; imp 8 ohms. Rectangular frame. Mounting area 6 x 9 in. Mounting depth 2 in $202/pr
M20R. As above with coaxial design. Round frame. Mounting diameter 7½ in. Mounting depth 3⅜ in $205/pr

M100 In-Wall Speaker
4-in full-range polypropylene-cone driver. Power

handling 35 W max; FR 70 Hz-15 kHz; sens 87 dB; imp 8 ohms. Rectangular frame. Mounting area 6 x 9 in. Mounting depth 2 in $119/pr
M10R. As above, round frame. Mounting diameter 7¼ in. Mounting depth 3⅜ in $99/pr

CinemA Series
CinemA 2 SUR In-Wall THX Surround Speaker
One 8-in aluminum-cone with rubber surround woofer; two 3-in aluminum-cone with rubber surround midranges; two ¾-in aluminum-dome tweeter. Power handling 5 W min, 200 W max; FR 45 Hz-20 kHz ±3 dB; sens 90 dB; imp 4 ohms. Rectangular frame. Mounting area: 11½ x 20⅛ in. Mounting depth 3⅞ in $1,250
CinemA 2 LCR 3-Way In-Wall THX Speaker. As above, one 8-in aluminum-cone with rubber surround and extended-pole-piece woofer; one ¾-in aluminum-dome tweeter. Tilting midrange and tweeter array; magnetic shielding. FR 70 Hz-20 kHz ±3 dB $1,250

CinemA 1 SUR In-Wall THX Surround Speaker
One 8-in polypropylene-cone with rubber-surround woofer; two 3-in polypropylene-cone with rubber-surround midranges; two ¾-in cloth-dome tweeter. Power handling 5 W min, 150 W max; FR 70 Hz-20 kHz ±3 dB; sens 90 dB; imp 4 ohms. Rectangular frame. Mounting area: 11½ x 20⅛ in. Mounting depth 3⅞ in $650
CinemA 1 LCR. As above, one ¾-in cloth-dome tweeter. Tilting midrange and tweeter array; magnetic shielding $650

In-Ceiling Speaker Series
The following have round frames and weather-resistant components and hardware.

DR7001 3-Way Ceiling Speaker
8-in dual-voice-coil reinforced glass-composite-cone woofer with rubber surround; 2½-in polypropylene-cone midrange with ferrofluid-cooled voice coil; ¾-in pivoting-aluminum-dome tweeter. 4 DIP switches provide various EQ settings. Power handling 125 W max; FR 32 Hz-20 kHz; sens 91 dB; imp 6 ohms. Mounting diameter 12 in. Mounting depth 4½ in $1,099/pr

DR5501 3-Way Ceiling Speaker
8-in cone woofer with rubber surround; 2½-in polypropylene-cone midrange; ⅝-in pivoting-polypropylene-dome tweeter. 3 DIP switches provide various EQ settings. Power handling 100 W max; FR 35 Hz-20 kHz; sens 90 dB; imp 8 ohms. Mounting diameter 12 in. Mounting depth 4½ in $600/pr

DR5001 3-Way Ceiling Speaker
8-in single-voice-coil polypropylene woofer with rubber surround; 2½-in polypropylene-cone midrange with ferrofluid-cooling; ⅝-in pivoting-polypropylene-dome tweeter. Power handling 100 W max; FR 39 Hz-20 kHz; sens 90 dB; imp 8 ohms. Mounting diameter 12 x 12 in. Mounting depth 4½ in $499/pr

CR8 2-Way Ceiling Speaker
8-in black plasticized-pulp cone with urethane surround; 1-in cloth-dome tweeter. Power handling 75 W max; FR 45 Hz-20 kHz; sens 89 dB; imp 8 ohms. Mounting diameter 12 in. Mounting depth 4 in $298/pr

GR8 2-Way Ceiling Speaker
5¼-in polypropylene-cone woofer with rubber surround; ⅝-in pivoting-pole-mounted polycarbonate-dome tweeter. Power handling 45 W max; FR 50 Hz-20 kHz; sens 90 dB; imp 8 ohms. Mounting diameter 7⅛ in. Mounting depth 2⅞ in $249/pr

GR4 2-Way Ceiling Speaker
5¼-in polypropylene-cone woofer with rubber surround; ⅝-in pole-mounted polycarbonate-dome tweeter. Power handling 35 W max; FR 60 Hz-20 kHz; sens 90 dB; imp 8 ohms. Mounting diameter 7¼ in. Mounting depth 2⅞ in $175/pr

CRM100 Ceiling Speaker
6½-in dual-voice-coil black plasticized-pulp cone with urethane surround; two ⅝-in pole-mounted polycarbonate-dome tweeters. Power handling 30 W max; FR 60 Hz-20 kHz; sens 88 dB; imp 8 ohms. Mounting diameter 9⅞ in. Mounting depth 3½ in $104

GRM2 Ceiling Speaker
5¼-in full-range polypropylene driver with high-frequency cone. Power handling 35 W max; FR 75 Hz-17 kHz; sens 89 dB; imp 8 ohms. Mounting diameter 7¼ in. Mounting depth 2⅞ in $88

TR Series
The following have round frames and weather-resistant components and hardware.

TR4000 2-Way In-Wall Speaker
6½-in reinforced-glass-composite dual-voice-coil woofer with rubber surround and 1-in pivoting aluminum-dome tweeter. Power handling 80 W max; FR 38 Hz-20 kHz; sens 89 dB; imp 6 ohms. Mounting diameter 9⅞ in. Mounting depth 3½ in $599/pr

TR3000 2-Way In-Wall Speaker
6½-in polypropylene-cone dual-voice-coil woofer with urethane surround and 1-in pivoting cloth-dome tweeter. Power handling 65 W max; FR 40 Hz-20 kHz; sens 89 dB; imp 8 ohms. Mounting diameter 9⅞ in. Mounting depth 3½ in $399/pr

TR2000 2-Way In-Wall Speaker
6½-in polypropylene-cone woofer and ⅝-in pivoting ferrofluid-cooled polycarbonate-dome tweeter. Power handling 50 W max; FR 45 Hz-20 kHz; sens 89 dB; imp 8 ohms. Mounting diameter 9⅞ in. Mounting depth 3½ in $279/pr

TR1000 2-Way In-Wall Speaker
Coaxial design with 6½-in polypropylene-cone woofer and ⅝-in polycarbonate tweeter. Power handling 35 W max; FR 55 Hz-20 kHz; sens 88 dB; imp 8 ohms. Mounting diameter 9⅞ in. Mounting depth 3½ in $199/pr

Mariner Series
The following are weather-resistant.

Model 300 2-Way Outdoor Speaker
5-in carbon-fiber-cone woofer with rubber surround and ¾-in aluminum-dome tweeter. Magnetic shielding. Power handling 80 W max; FR 55 Hz-20 kHz; sens 90 dB; imp 8 ohms. 7½ x 11 x 7¼ in $499/pr

Model 200 2-Way Outdoor Speaker
5-in polypropylene-cone woofer with rubber surround and ¾-in cloth-dome tweeter. Magnetic shielding. Power handling 70 W; FR 60 Hz-20 kHz; sens 89 dB; imp 8 ohms. 7½ x 11 x 7¼ in $379/pr

Model 100 2-Way Outdoor Speaker
5-in polypropylene-cone woofer with urethane surround and ⅝-in polycarbonate dome tweeter. Magnetic shielding. Power handling 60 W max; FR 65 Hz-20 kHz; sens 88 dB; imp 8 ohms. 7½ x 11 x 7¼ in $279/pr

Mariner Jr. 20 Outdoor Speaker
4-in polypropylene-cone woofer with rubber surround; ¾-in cloth-dome tweeter. Magnetic shielding. Includes pivoting bracket. Power handling 50 W max; FR 67 Hz-20 kHz; sens 87 dB; imp 8 ohms. 5½ x 1⅛ x 6¼ in $249

Mariner Jr. 10 Outdoor Speaker
4-in polypropylene-cone woofer with urethane surround; ⅝-in polycarbonate-dome tweeter. Pivoting bracket. Power handling 50 W; FR 70 Hz-20 kHz; sens 87 dB; imp 8 ohms. 5½ x 1⅛ x 6¼ in $199

SONIC GEM

The following use an acoustic-suspension design with 1-in impregnated soft-dome tweeter, damped enclosure cavity, and hand-soldered crossover. Custom finishes are available.

Black Diamond 2-Way Speaker
Two 8-in woofers. Power handling 150 W; crossover point 3 kHz; FR 37 Hz-27 kHz; imp 6 ohms. Black lacquer finish. 15 x 30 x 8 in $995/pr

Black Ruby 2-Way Speaker
8-in woofer. Power handling 150 W; crossover point 3.2 kHz; FR 40 Hz-27 kHz; imp 8 ohms. Black lacquer finish. 6 x 26 x 12 in $795/pr
Black Pearl. As above, bookshelf version. FR 50 Hz-22 kHz; imp 8 ohms. 10 x 14 x 8 in $400/pr

Music Monitor 2-Way Speaker
10-in woofer. Power handling 150 W; crossover point 2.5 kHz; FR 40 Hz-22 kHz; imp 8 ohms. Light oak finish. 15 x 26 x 11 in $500/pr

SONY

SS-DD100 Home Theater System
7-speaker system with two subwoofers; acoustic-suspension design center speaker with two 5-in woofers and one ¾-in tweeter; two acoustic-suspension design front speakers, each with two 5-in woofers and one ¾-in tweeter; two satellites, each with two 5-in woofers and one ¾-in tweeter. Magnetic shielding. Power handling 200 W. Gray. Subwoofer: 10 X 25 x 19⅝ in; 44 lb. Center: 17 x 8 x 9½ in; 12 lb. Front: 17 x 8 x 9½ in; 12 lb. Satellite: 17 x 8 x 9½ in; 12 lb $3,000

SS-DD50 Home Theater System
7-speaker system with two powered subwoofers, each with 8-in drivers and 100-W amps; bass-reflex design center speaker with 3-in woofer and 1-in tweeter; two bass-reflex design front speakers, each with 3-in woofer and 1-in tweeter; two satellites, each with 3-in woofer and 1-in tweeter. Magnetic shielding. Line- and speaker-level inputs. Wall mountable. Power handling 120 W. Black. Subwoofer: 10 x 15 x 19⅝ in; 33 lb. Center: 17 x 4¾ x 2⅝ in; 12 lb. Front: 17 x 4¾ x 2⅝; 12 lb. Satellite: 17 x 4¾ x 2⅝ in; 12 lb $2,000

SS-M9 3-Way Speaker
Bass-reflex design with two 8-in mineral-filled polypropylene-cone woofers, one 5-in cone midrange, and one 1-in ferrofluid-cooled polymer-impregnated silk-dome tweeter. Faceted baffle; 1-in thick MDF cabinet walls and bracing. Line- and speaker-level inputs and outputs. Power handling 300 W; crossover point variable from 200 Hz-2.5 kHz; FR 29 Hz-23 kHz ±3 dB; sens 88.5 dB; imp 4 ohms. Cherry-wood or black finish. 5-yr warranty. 15¾ x 42 x 23⅜ in; 145 lb $1,750

SS-DD20 Home Theater System
7-speaker system with two powered subwoofers, each with 6¼-in drivers and 30-W amps; bass-reflex design center speaker with two 3-in woofers and one 1-in tweeter; two front and two satellite speakers, each with two 6½-in drivers and bass-reflex design. Magnetic shielding. Line- and speaker-level inputs. Power handling 120 W front, center, and satellite. Gray. Subwoofer: 8 x 16⅜ x 14⅜ in; 18 lb. Center: 17 x 14¾ x 6½ in. Front: 8 x 17 x 11 in; 17 lb. Satellite: 8 x 17 x 11 in; 17 lb $1,000

SS-M3 2-Way Speaker
Acoustic-suspension design with 6½-in cone woofer with butyl-rubber surrounds and 1-in dome tweeter. 1-in thick MDF cabinet walls and bracing; computer-optimized 24-dB crossover. Speaker stands optional. Power handling 120 W; crossover point 2 kHz; FR 70 Hz-20 kHz ±3 dB; sens 85 dB; imp 8 ohms. Cherry-wood veneer or black finish. 11⅞ x 18⅜ x 13⅜ in; 29 lb $900/pr

SS-M7A 3-Way Speaker
Acoustic-suspension design with 8-in mineral-filled polypropylene-cone woofer with butyl-rubber surround, 5-in cone midrange with butyl-rubber surround, and 1-in dome tweeter. 1-in thick

MDF cabinet. Line- and speaker-level inputs and outputs. Power handling 200 W; crossover point variable from 300 Hz-3 kHz; FR 45 Hz-22 kHz ±3 dB; sens 86 dB; imp 6 ohms. Cherry-wood or black finish. 5-yr warranty. 15¾ x 29⅜ x 16 in; 55 lb $700

SS-M1CN 2-Way Center Speaker
Acoustic-suspension design with 6½-in cone woofer with butyl-rubber surround and 1-in fabric-silk dome tweeter. 1-in thick MDF cabinet. Power handling 150 W; crossover point 2.25 kHz; FR 50 Hz-22 kHz ±3 dB; sens 89 dB; imp 6 ohms. Black wood veneer. 5-yr warranty. 7⅜ x 20 x 10¼ in; 8 lb $600

SA-VE 150 Home Theater System
6-speaker system with subwoofer with 60-W amp; one center, two front, and two satellite speakers, each with bass-reflex design and 2 x 3½ in woofer. Magnetic shielding. Wall mountable. Speaker stands optional. Power handling 120 W satellite. Black. Subwoofer: 8 x 15¾ x 14½ in; 21 lb. Center: 12 x 2⅜ x 5¼ in; 3 lb. Front: 2½ x 6 x 5 in; 2 lb. Satellite 8 x 17 x 11 in; 17 lb $480

SS-U6033 3-Way Speaker
Acoustic-suspension design with 12-in long-throw woofer, 4-in cone midrange, and 1-in cone tweeter. Detachable grilles. Includes stripped speaker cable. Power handling 140 W; FR 35 Hz-20 kHz; sens 91 dB; imp 8 ohms. Black ash grained-vinyl finish. 15 x 26¼ x 11⅜ in; 34 lb $200/pr

SS-U4033 3-Way Bookshelf Speaker
Acoustic-suspension design with 8-in long-throw woofer, 2-in cone midrange, and 1-in cone tweeter. Detachable grilles. Power handling 140 W; FR 50 Hz-20 kHz; sens 90 dB; imp 8 ohms. Black ash grained-vinyl finish. 12 x 20 x 10 in; 14 lb ...$140/pr

SS-CN30 Center Speaker
Acoustic-suspension design with two 5-in cones. Magnetic shielding. Power handling 120 W. Gray. 17 x 5¾ x 6⅝ in; 6 lb $120

SS-U3033 2-Way Bookshelf Speaker
Acoustic-suspension design with 6½-in long-throw woofer and 2-in cone tweeter. Detachable speaker grilles. Includes stripped speaker cable. Power handling 60 W; FR 60 Hz-20 kHz; sens 89 dB; imp 8 ohms. Black ash grained-vinyl finish. 9 x 13⅜ x 18½ in; 11 lb $120/pr

SOUNDOLIER

THP-1 Subwoofer
Two 8-in drivers. Configurable for 4-ohm mono use. Power handling 100 W rms; FR 38-500 Hz; sens 90 dB; imp 8 ohms. High-gloss piano-black or white finish. 10½ x 25 x 14½ in $574

AS83A 3-Way In-Wall Speaker
8-in polypropylene woofer, 4-in polypropylene midrange, and 1-in soft-dome tweeter. 12-dB/oct crossover; moisture-proof components. Adjustable tweeter level. Power handling 50 W rms; crossover points 2.25 and 5 kHz; FR 45 Hz-20 kHz; sens 88 dB; imp 8 ohms. Paintable exterior $522/pr

THP-2 In-Floor/Ceiling Subwoofer
Two 8-in drivers. Can be installed between standard 16-in center floor/ceiling joists. Power handling 100 W rms; FR 50-170 Hz ±3 dB; sens 96 dB; imp 8 ohms. 13½ x 11 x 21⅞ in $462

AS80A 2-Way In-Wall Speaker
8-in polypropylene woofer and 1-in soft-dome tweeter. 12-dB/oct crossover; moisture-proof components. Adjustable tweeter level. Power handling 30 W rms; crossover point 2.8 kHz; FR 50 Hz-20 kHz; sens 88 dB; imp 8 ohms. Paintable ...$385/pr

W150T 2-Way Outdoor Speaker
5¼-in carbon-fiber-reinforced polypropylene woofer and 1-in ferrofluid-cooled soft-dome tweeter. Die-cast aluminum enclosure. Push-on connectors. 8-ohm selector switch. Includes U-shaped mounting bracket for multiple-position angling. 70.7-V transformer optional. Power handling 50 W; FR 75 Hz-20 kHz; sens 86 dB; imp 8 ohms. Black or cream. 6⅜ x 9 x 6⅝ in $329
AS130. As above, 4-in carbon-fiber reinforced polypropylene woofer. Power handling 30 W; FR 95 Hz-20 kHz; sens 84 dB. Black or white. 7¼ x 4⅝ x 4⅜ in; 6 lb $296

AS62A 2-Way In-Wall Speaker
6½-in woofer and 1-in soft-dome tweeter. Power handling 20 W rms; crossover point 2.5 kHz; FR 60 Hz-20 kHz; sens 86 dB; imp 8 ohms $315/pr

AS36C 2-Way Ceiling Speaker
6-in woofer and ½-in tweeter. 18-dB/oct crossover. Power handling 35 W rms; crossover point 4 kHz; FR 65 Hz-20 kHz ±5 dB; sens 87.8 dB; imp 8 ohms. Recessed lighting-style grille with white trim ring $273/pr
AS26C. As above, flush grille $208/pr

THP-3 In-Wall Subwoofer
8-in dual-voice-coil driver. TR-BX8 enclosure optional. Power handling 50 W rms; FR 45-500 Hz; sens 89 dB; imp 8 ohms. Paintable white finish. 5 lb. Rectangular frame. Mounting area: 9 x 13¼ in. Mounting depth 3⅜ in $255

AS115 2-Way Outdoor Speaker
4-in treated woofer and 1-in tweeter. Plastic enclosure. Push-on connectors. 8-ohm selector switch. Includes U-shaped mounting bracket for multiple-position angling. Power handling 15 W; FR 140 Hz-14.3 Hz; sens 88 dB; imp 8 ohms. Black or white. 4½ x 7¼ x 4⅜ in; 5 lb $199/pr

AS60A 2-Way In-Wall Speaker
6½-in polypropylene woofer and 2-in paper-cone tweeter. 6-dB/oct crossover; moisture-proof components. Power handling 10 W rms; crossover point 3.4 kHz; FR 60 Hz-15 kHz; sens 85 dB; imp 8 ohms. Paintable $145/pr

SOUND DYNAMICS

RTS-P100 2-Way Powered Speaker
Bass-reflex design with three 6½-in injection molded die-cast woofers with rubber surrounds and one 1-in laminated-dome tweeter; 100-W amp. Multilevel bracing. 2 pair gold-plated 5-way terminals; line-level input. Volume and frequency controls. Crossover point 2 kHz; FR 25 Hz-22 kHz; sens 94 dB; imp 8 ohms. 5-yr warranty. 10 x 42 x 15 in $1,200/pr

CD-5000 Home Theater System
6-speaker system with powered subwoofer with 8-in woofer; center speaker with two 3½-in woofers and one ½-in tweeter; four satellites, each with two 3½-in woofers and one ½-in tweeter. 5-way binding posts for satellite and center speakers; line- and speaker-level inputs for subwoofer. Phase control; EQ and volume control. Power handling 15 W min, 75 W max; crossover point 3 kHz; FR 120 Hz-20 kHz dB center, 29 Hz-100 kHz dB surround; sens 88 dB; imp 8 ohms. Black or white satellites. Subwoofer: 9 x 15 x 10 in. Center: 12 x 5 x 6 in. Satellite: 5 x 7 x 7 in $800

RTS-7 2-Way Speaker
Bass-reflex design with two 5½-in injection-molded die-cast woofers with rubber surrounds and one 1-in dome tweeter. Multilevel bracing. 2 pair gold-plated 5-way binding terminals. Power handling 15 W min, 150 W max; crossover point 2 kHz; FR 42 Hz-20 kHz; sens 90 dB; imp 8 ohms. Black ash or rosewood finish. 5-yr warranty. 10 x 35 x 11 in; 35 lb $550/pr
RTS-9. As above, 6½-in molded die-cast woofer with rubber surrounds and ½-in textile-dome tweeter. Power handling 180 W; FR 34 Hz-20 kHz; sens 92 dB. 10 x 38 x 14 in; 44 lb $700/pr
RTS-11. As above, three 6½-in molded die-cast woofers with rubber surrounds and one 1-in textile-dome tweeter. Damping and gain controls. Power handling 250 W; FR 30 Hz-20 kHz; sens 94 dB. 10 x 42 x 15 in; 50 lb $950/pr

RTS-5 2-Way Speaker
Bass-reflex design with 6½-in molded die-cast woofer with rubber surrounds and ½-in textile dome tweeter. Multilevel bracing. Gold-plated 5-way terminals. Power handling 15 W min, 100 W max; crossover point 2 kHz; FR 45 Hz-20 kHz; sens 90 dB; imp 8 ohms. Black ash or rosewood. 5-yr warranty. 10 x 33 x 11 in; 32 lb $450/pr
RTS-3 2-Way. As above, bookshelf version. Crossover point 2.5 kHz; FR 47 Hz-20 kHz; sens 89 dB. 9 x 14 x 9 in; 11 lb $280/pr
RTS-1. As above, 5½-in molded die-cast woofer with rubber surrounds. Power handling 80 W max; FR 55 Hz-20 kHz. Black or white. 8 x 11 x 8 in; 8 lb $200/pr

RTS-RS1 2-Way Bipolar Surround Speaker
Acoustic-suspension design with two 4½-in molded die-cast woofers with surrounds and one ½-in dual-flared-dome tweeter. Gold-plated 5-way binding posts. Power handling 15 W min, 80 W max; crossover point 2.5 kHz; FR 70 Hz-20 kHz; sens 99 dB; imp 8 ohms. Black. 5-yr warranty. 18 x 6 x 9 in; 11 lb $330/pr

RTS-C2 2-Way Satellite/Center-Channel Speaker
Bass-reflex design with two 5½-in molded die-cast woofers with rubber surrounds and one 1-in dual-flared dome tweeter. Magnetic shielding. Gold-plated 5-way terminals. Power handling 15 W min, 120 W max; crossover point 2 kHz; FR 47 Hz-20 kHz; sens 90 dB; imp 8 ohms. Black. 5-yr warranty. 21 x 7 x 11 in; 23 lb $300/pr

RTS-C1 2-Way Center-Channel Speaker
Bass-reflex design with two 4½-in molded die-cast woofer with rubber surrounds and one ¾-in dual-flare dome tweeter. Magnetic shielding. Gold-plated 5-way binding posts. Power handling 15 W min, 100 W max; crossover point 2.5 kHz; FR 60 Hz-20 kHz; sens 88 dB; imp 8 ohms. Black. 5-yr warranty. 18 x 6 x 9 in; 11 lb $200

CS-1000 2-Way Center-Channel Speaker
Acoustic-suspension design with two 3½-in graphite woofers with rubber surrounds and one ½-in dual-flare dome tweeter. Magnetic shielding. 5-way terminals. Power handling 15 W min, 75 W max; FR 120 Hz-20 kHz; sens 88 dB; imp 8 ohms. Black. 5-yr warranty. 12 x 5 x 6 in; 5 lb $150
CS-2000. As above, satellite/center-channel version. One 3½-in graphite woofer with rubber surround. Black or white. 5 x 7 x 5 in; 3 lb $90

Powered Subwoofers
The following have a phase control, line- and speaker-level inputs, and a black finish.

THS-4000v Powered Subwoofer
15-in driver; 150-W amp. Line- and speaker-level outputs. Active EQ; volume control; A/V switch. FR 22-150 Hz. 21 x 21 x 21 in; 72 lb $850

THS-3000 Powered Subwoofer
Bass-reflex design with 12-in downward-firing woofer; amp rated at 150 W. Protection circuitry. Speaker-level output. Level control; adjustable low-pass filter; E/Q control. FR 22-150 Hz ...$600
THS-2000. As above, 10-in front-firing driver. Amp rated at 100 W. FR 28-150 Hz $400
THS-1000. As THS-2000N, 8-in driver. FR 37-150 Hz $300

SOUND LAB

Except for the Dynastat, the following have plastic electrostatic panels and 3-band equalizers.

Ultimate-1 Electrostatic Speaker
90° horizontal dispersion; steel frame; silver inter-

connect cable. Power handling 100 W min, 500 W max; FR 26 Hz-22 kHz ±3 dB; sens 86 dB; imp 8 ohms. 38 x 82 x 11 in; 210 lb $27,000/pr

A-1 Electrostatic Speaker
90° horizontal dispersion. Power handling 100 W min, 400 W max; FR 28 Hz-22 kHz ±3 dB; sens 86 dB; imp 8 ohms. 36 x 81 x 10 in; 185 lb ..$13,250/pr

A-3 Electrostatic Speaker
75° horizontal dispersion. Power handling 100 W min, 350 W max; FR 30 Hz-22 kHz ±3 dB; sens 86 dB; imp 8 ohms. 31 x 74 x 9 in; 145 lb ..$9,650/pr

Aura Electrostatic Speaker
60° horizontal dispersion. Power handling 100 W min, 300 W max; FR 30 Hz-22 kHz ±2 dB; sens 88 dB; imp 8 ohms. 68 x 26 x 7 in; 145 lb ..$6,500/pr

Dynastat 2-Way Electrostatic Speaker
Hybrid design with 10-in woofer and electrostatic tweeter. 90° horizontal dispersion. Continuously adjustable woofer level; brilliance adjustment. Power handling 50 W min, 150 W max; crossover point 250 Hz; FR 27 Hz-22 kHz ±3 dB; sens 88 dB; imp 8 ohms. 17 x 72 x 3 in; 78 lb $3,390/pr
Quantum. As above, 8-in cone woofer. FR 38 Hz-22 kHz ±3 dB. 14 x 53 x 3 in; 53 lb $2,250/pr

SOUND QUEST

ASW8 Ci In-Wall Powered Subwoofer
Acoustic-suspension design with 8-in long-throw woofer; 120-W amp. 18 dB/oct crossover with selectable line-level high-pass at 50, 75, and 110 Hz. Line-level inputs and outputs. Phase control. Includes external power supply. Crossover point variable from 35-150 Hz; FR 35-150 Hz ±3 dB; sens 88.5; imp 8 ohms. Paintable matte-white finish. Square frame. Mounting diameter 11⅛ in. Mounting depth 3½ in $800/pr

SOURCE

The following carry a 7-year warranty.

Model 710 3-Way Speaker
Bass-reflex design with one 8-in treated-paper woofer, one 7-in carbon-fiber midrange, and three 1-in silk-dome tweeter. Proprietary cabinet construction with interior mineral-polymer coating. 2 sets of 5-way binding posts. Includes brass-support cones. Power handling 350 W; crossover points 100 Hz and 1.7 kHz; FR 25 Hz-20 kHz ±2 dB; sens 88 dB; imp 8 ohms. Cherry or maple finish. 9 x 45 x 15 in; 90 lb $4,450/pr

Model 277 2-Way Front Speaker
Bass-reflex design with two 7-in treated-paper-cone woofer and one 1-in silk-dome tweeter. Cross-correlated midchamber with cross bracing; interior coated with mineral polymer. 2 sets of 5-way binding posts. Includes brass cones. Power handling 350 W; crossover points 100 Hz and 2 kHz; FR 28 Hz-20 kHz ±2 dB; sens 89 dB; imp 6 ohms. Maple, cherry, oak, or teak finish. 9 x 42 x 10 in; 85 lb $2,950/pr

Model 610 2-Way Speaker
Bass-reflex design with 7-in carbon-fiber midrange and 1-in silk-dome tweeter. Proprietary cabinet construction with interior mineral-polymer coating. 2 sets of 5-way binding posts. Power handling 250 W; crossover point 1.7 kHz; FR 30 Hz-20 kHz ±2 dB; sens 88; imp 8 ohms. Cherry or maple finish. 9 x 39 x 11 in; 75 lb $2,450/pr

Model 1.7FS 2-Way Speaker
Bass-reflex design with 7-in treated-paper-cone woofer and 1-in silk-dome tweeter. Cross-correlated midchambers; interior coated with mineral-polymer; proprietary crossover. 5-way binding posts. Includes brass cones. Power handling 250 W; crossover point 1.7 kHz; FR 35 Hz-20 kHz ±2 dB; sens 88 dB; imp 8 ohms. Oak, cherry, or teak finish. 9 x 42 x 10 in; 70 lb $1,995/pr

Model 1.5D 2-Way Bookshelf Speaker
Bass-reflex design with 5-in polypropylene-cone woofer and ¾-in silk-dome tweeter. Proprietary cabinet construction with interior mineral-polymer coating. 5-way binding posts. Includes isolation bumpers. Power handling 200 W; crossover point 2.1 kHz; FR 45 Hz-20 kHz ±2 dB; sens 88 dB; imp 5 ohms. Maple, cherry, or teak finish. 7 x 12 x 9 in; 21 lb $1,500/pr

RC-2FS 3-Way Speaker
Bass-reflex design with one 6-in woofer, two 4-in midranges, and one 3-in top-firing cone tweeter. Diffuse field design with front and adjacent drive units. 5-way binding posts. High-frequency switch; mirror-imaging. Includes brass cones. Power handling 250 W; crossover points 150 Hz and 4 kHz; FR 50 Hz-12 kHz ±3 dB; sens 89 dB; imp 8 ohms. White or black gloss. 5 x 42 x 11 in; 45 lb $795/pr

SCC 2-Way Center-Channel Speaker
Bass-reflex design with two 6-in cast-frame treated-cone woofers with one 1-in silk-dome tweeter. Magnetic shielding; 3-sided front flared back from center point. 5-way binding-posts. High-frequency switch. Includes rubber feet. Power handling 200 W; crossover point 2 kHz; FR 45 Hz-20 kHz ±3 dB; sens 89 dB; imp 5 ohms. Black gloss, oak, or cherry. 23 x 9 x 11 in; 27 lb $695
ESC. As above, two 5-in cast-frame treated-cone woofers with one ¾-in tweeter. Power handling 150 W; crossover point 2.2 kHz; FR 55 Hz-10 kHz ±3 dB. Black gloss. 19 x 7 x 10 in; 23 lb $595
CC-2V. As above, slanted front panel, FR 60 Hz-20 kHz ±3 dB. 20 x 6 x 10 in; 23 lb $495

CC-2S 2-Way Center-Channel Speaker
Bass-reflex design with two 5-in woofers and one ¾-in tweeter. Magnetic shielding; slanted front panel. 5-way binding posts. Adjustable L pad for tweeter. Includes rubber feet. Power handling 150 W; crossover point 2.5 kHz; FR 70 Hz-20 kHz ±3 dB; sens 90 dB; imp 8 ohms. Black gloss. 20 x 6 x 10 in; 21 lb $395

RC-1B 2-Way Surround Speaker
Acoustic-suspension design with two 4-in woofers and one 3-in top-firing tweeter. Diffuse field design with front and adjacent drive units. 1 set of 5-way binding-posts. High-frequency switch; mirror-imaging. Includes rubber feet and wall anchors. Power handling 100 W; crossover point 4 kHz; FR 70 Hz-10 kHz; sens 89 dB; imp 8 ohms. White, black, or oak. 5 x 9 x 5 in; 12 lb $379/pr

SPEAKER ART

Super Clef 2-Way Bookshelf Speaker
Vented design with one 8-in polypropylene woofer with rubber-surround 2-in voice-coil and 48 oz magnet; one 1-in damped low-resonance fabric-dome tweeter. Asymmetrical 4th-order crossover; 1½-in friction damped panels; ladder braced. 5-way binding posts and banana jacks. Power handling 200 W max; crossover point 1.6 kHz; FR 32 Hz-22 kHz ±3 dB; sens 88 dB; imp 6 or 8 ohms. Striped mahogany. 6-yr limited warranty. 10⅜ x 21½ x 13 in; 51 lb $1,800/pr

SPEAKERCRAFT

The following are weather resistant, available with either cloth or metal grilles, and carry a lifetime warranty.

WS550 2-Way Outdoor Speaker
Two 5¼-in polypropylene woofers and one 1-in pivoting ferrofluid-cooled cloth-dome tweeter. Includes mounting bracket. Power handling 80 W; FR 50 Hz-20 kHz; sens 91 dB; imp 4 ohms. White or dark granite. 8½ x 16 x 7½ in $580/pr
WS540. As above, ⅝-in tweeter. Power handling 70 W; FR 60 Hz-20 kHz $460/pr

Model 6.5LCR 2-Way Center-Channel Speaker
Two 6½-in mineral-filled polypropylene woofers and one pivoting 1-in cloth-dome tweeter. Magnetic shielding. Adjustable bass and treble. Power handling 100 W; FR 40 Hz-20 kHz; sens 90 dB; imp 8, 6, or 4 ohms. Black oak. 22¾ x 7⅜ x 9¼ in $499

WS520 2-Way Outdoor Speaker
5¼-in polypropylene woofer and 1-in pivoting ferrofluid-cooled cloth-dome tweeter. Includes mounting bracket. Power handling 60 W; FR 70 Hz-20 kHz; sens 90 dB; imp 8 ohms. White or dark granite. 7¾ x 11½ x 5¾ in $400/pr
WS510. As above, ⅝-in tweeter. Power handling 50 W; FR 80 Hz-20 kHz; sens 91dB $310/pr

Model 6.1LCR 2-Way Center-Channel Speaker
Two 6½-in polypropylene woofers and one pivoting 1-in cloth-dome tweeter. Magnetic shielding. Power handling 80 W; FR 50 Hz-20 kHz; sens 90 dB; imp 8 ohms. Black oak. 21¾ x 7⅜ x 9⅜ in ..$299

In-Wall Speakers
The following have rectangular frames.

Model 8.5MIT 3-Way In-Wall Speaker
8-in braided glass-fiber woofer with dual-voice-coils, pivoting 2-in cloth-dome midrange, and pivoting ¾-in titanium liquid-cooled tweeter. Adjustable EQ for bass, midrange, and treble. Includes proprietary wall-dampening system. Power handling 160 W; FR 30 Hz-22 kHz; sens 90 dB; imp 4, 6, or 8 ohms. Mounting area: 10⅝ x 15⅝ in. Mounting depth 3⅛ in $1,325/pr

Model 8.3MIT 3-Way In-Wall Speaker
8-in mica-filled polypropylene woofer, pivoting 3-in mica-filled polypropylene midrange, and pivoting ¾-in silk-dome tweeter. Adjustable bass and midrange. Power handling 125 W; FR 38 Hz-20 kHz; sens 90 dB; imp 4, 6, or 8 ohms. Mounting area: 10⅝ x 16⅝ in. Mounting depth 3⅛ in $799/pr

Model 6.5MIT 2-Way In-Wall Speaker
6½-in mica-filled-polypropylene dual-voice-coil driver and 1-in pivoting ferrofluid-cooled cloth-dome tweeter. Bass and treble adjustable ±3 dB; 6-screw installation. Power handling 100 W; FR 40 Hz-20 kHz; sens 90 dB; imp 4, 6, or 8 ohms. Mounting area: 8¼ x 12 in. Mounting depth 3 in $465/pr
Model 6.2MIT. As above, 6½-in polypropylene dual-voice-coil driver. Power handling 80 W; FR 45 Hz-20 kHz; imp 4 or 8 ohms $370/pr

Model 6.1MIT 2-Way In-Wall Speaker
6½-in polypropylene driver and pivoting 1-in ferrofluid-cooled cloth-dome tweeter. 6-screw installation. Power handling 60 W; FR 50 Hz-20 kHz; sens 92 dB; imp 8 ohms. 8¼ x 12 x 3 in ...$245/pr

SC662FL 2-Way In-Wall Speaker
6½-in polypropylene driver and ½-in ferrofluid-cooled dome tweeter. 4-screw installation. Power handling 90 W; FR 45 Hz-20 kHz; sens 92 dB; imp 8 ohms. Mounting area: 8⅞ x 11⅞ in. Mounting depth 3 in $188/pr
SC652FL. As above, power handling 70 W; FR 50 Hz-20 kHz $146/pr

SC552FL 2-Way In-Wall Speaker
5¼-in polypropylene woofer and ½-in ferrofluid-cooled dome tweeter. 4-screw installation. Power handling 80 W; FR 60 Hz-20 kHz; sens 92 dB; imp 8 ohms. 7½ x 10½ x 3 in $178/pr
SC542FL. As above, power handling 50 W; FR 70 Hz-20 kHz $136/pr

SC600FL 2-Way In-Wall Speaker
6½-in polypropylene driver and 2-in cone tweeter. 4-screw installation. Power handling 60 W; FR 60 Hz-18 kHz; sens 90 dB; imp 8 ohms. Mounting area: 8¼ x 12 in. Mounting depth 3 in $122/pr

Ceiling Speakers
Model 8.5CRS 2-Way Ceiling Speaker
8-in mica-filled-polypropylene dual-voice-coil driver and 1-in ferrofluid-cooled cloth-dome tweeter

mounted on WavePlane baffle. 4-screw installation; adjustable bass and treble ±3 dB. Power handling 100 W; FR 30 Hz-20 kHz; sens 90 dB; imp 4, 6, or 8 ohms. Round frame. Mounting diameter: 12 in. Mounting depth 3¾ in $560/pr
Model 8.2CRS. As above, ⅝-in pivoting ferrofluid-cooled dome tweeter mounted on WavePlane baffle. FR 35 Hz-20 kHz $450/pr

Model 6.5CRS 2-Way Ceiling Speaker
6½-in mica-filled-polypropylene dual-voice-coil driver and 1-in pivoting ferrofluid-cooled cloth-dome tweeter mounted on WavePlane baffle. 4-screw installation; adjustable bass and treble ±3 dB. Power handling 80 W; FR 40 Hz-20 kHz; sens 90 dB; imp 4, 6, or 8 ohms. Round frame. Mounting diameter: 9⅞ in. Mounting depth 3½ in . . .$405/pr

Model 8.2BAS Ceiling Subwoofer
8-in injection-molded-graphite dual-voice-coil driver. Front-panel 0°/180° phase switch; 4 screw-installation. Power handling 100 W; crossover points 80 or 120 Hz; FR 30-80 Hz or 30-120 Hz; sens 90 dB; imp 8 ohms. Round frame. Mounting diameter: 12 in. Mounting depth 3¾ in $318
Model 8.1BAS. As above, 8-in polypropylene dual-voice-coil driver. Sens 89 dB $225

Model 6.2CRS³ 2-Way Ceiling Speaker
6½-in polypropylene dual-voice-coil driver and ⅝-in pivoting ferrofluid-cooled dome tweeter mounted on WavePlane baffle. 4-screw installation; adjustable bass and treble ±3 dB. Power handling 60 W; FR 45 Hz-20 kHz; sens 92 dB; imp 4, 6, or 8 ohms. Round frame. Mounting diameter: 9⅞ in. Mounting depth 3½ in $275/pr

Model 6.1CRS³ 2-Way Ceiling Speaker
6½-in polypropylene driver and pivoting ⅝-in ferrofluid-cooled dome tweeter. 4-screw installation. Power handling 50 W; FR 70 Hz-20 kHz; sens 91 dB; imp 8 ohms. Rectangular frame. Mounting area: 9⅞ x 3½ in $207

Model 5.2R 2-Way Ceiling Speaker
5¼-in polypropylene driver and ⅝-in dome ferrofluid-cooled tweeter. 4-screw installation. Power handling 50 W; FR 60 Hz-20 kHz; sens 89 dB; imp 8 ohms. Resembles ceiling lighting fixtures. Round frame. Mounting diameter: 7¾ in. Mounting depth 3½ in $149/pr

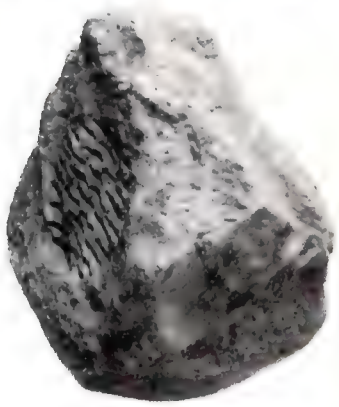
Model 6.1DT 2-Way Ceiling Speaker
One 6½-in polypropylene woofer with dual-voice-coils and two ½-in polyamide-dome liquid-cooled tweeters. Stereo sound from one speaker. Power handling 60 W; FR 60 Hz-20 kHz ±4 dB; sens 91 dB; imp 8 ohms. Round frame. Mounting diameter 9⅞ x 3½ in. Mounting depth 3½ in $145
Model 6.0DT. As above, 4-screw installation. Mounting diameter 8¾ in $113

Model 5.1R Ceiling Speaker
Dual-cone 5¼-in woofers. Power handling 50 W; FR 60 Hz-15 kHz; sens 89 dB; imp 8 ohms. Round frame. Mounting depth 2½ in $120/pr

SPEAKERLAB
The following have a ¾-in MDF cabinet with oiled-oak veneer and carry a 5-year warranty.

SL-7.1 4-Way Speaker
Bass-reflex design with 12-in woofer, 10-in woofer, 6½-in midrange, and 1-in polypropylene-dome tweeter. Power handling 275 W; crossover points 180 Hz, 350 Hz and 5 kHz; FR 25 Hz-21 kHz; sens 94 dB; imp 4 ohms. Hardwood trim. 38½ x 14 x 16 in; 82 lb $1,149/pr
As above, kit version $880/pr

SL-5.1 3-Way Speaker
Bass-reflex design with 8-in woofer, 6½ midrange, and 1-in polypropylene-dome tweeter. Power handling 175 W; crossover points 180 Hz and 2.5 kHz; FR 30 Hz-21 kHz; sens 92 dB; imp 4 ohms. Hardwood trim. 32 x 11½ x 13⅞ in; 49 lb $765/pr
As above, kit version $590/pr


StereoStone Gibralter Rock outdoor speaker

SL-4.1 2-Way Bookshelf Speaker
Bass-reflex design with two 6½-in woofers and one 1-in aluminum-dome tweeter. Power handling 150 W; crossover point 2.5 kHz; FR 35 Hz-21 kHz; sens 91 dB; imp 4 ohms. Hardwood trim. 32 x 10 x 12¾ in; 40 lb $599/pr
As above, kit version $470/pr

SL-3.1 2-Way Bookshelf Speaker
Acoustic-suspension design with 6½-in woofer and ¾-in polypropylene-dome tweeter. Power handling 110 W; crossover point 2.5 kHz; FR 45 Hz-21 kHz ±3 dB; sens 86 dB; imp 4 ohms. Hardwood trim. 15⅝ x 9⅝ x 11 in; 21 lb $395/pr
As above, kit version $300/pr

SL-SW Subwoofer
Bass-reflex design with 10-in dual-voice-coil driver. 4 inputs. Power handling 150 W; crossover point 180 Hz; FR 35-180 Hz; sens 91 dB; imp 8 ohms. 14 x 23 x 16 in; 43 lb $349
As above, kit version $240

SL-C 2-Way Center-Channel Speaker
Acoustic-suspension design with two 6½-in woofers and one ¾-in polypropylene-dome tweeter. Magnetic shielding. Power handling 100 W; crossover point 2.5 kHz; FR 42 Hz-21 kHz; sens 90 dB; imp 4 ohms. 8¼ x 23¼ x 10¼ in; 25 lb $329
As above, kit version $260

SL-2.1 2-Way Bookshelf Speaker
Bass-reflex design with 5¼-in woofer and ¾-in polypropylene-dome tweeter. Power handling 75 W; crossover point 2.5 kHz; FR 50 Hz-21 kHz ±3 dB; sens 88 dB; imp 8 ohms. Hardwood trim. 13⅛ x 9¾ x 9⅜ in; 15 lb $260/pr
As above, kit version $200/pr

STATUS ACOUSTICS
Titus 3-Way Speaker
Bass-reflex design with six 10-in aluminum cone woofers, two 6½-in aluminum cone midranges, and one 1-in silk dome tweeter. Isobaric driver configuration. 3 sets gold-plated 5-way binding posts. Power handling 500 W; crossover points 50 Hz and 2.5 kHz; FR 18 Hz-20 kHz; sens 90 dB; imp 4 ohms. 12¾ x 63½ x 23½ in; 145 lb . . .$19,500/pr

Atlas 3-Way Speaker
One 12-in side-firing aluminum-cone woofer, two 6½-in aluminum-cone midranges with phase unplug, and 1-in silk-dome tweeter. Gold-plated 5-way binding posts. Power handling 250 W; crossover points 150 Hz and 2.5 kHz; FR 27 Hz-20 kHz ±3 dB; sens 90 dB; imp 4 ohms. 8¼ x 50 x 17 in; 122 lb $7,995/pr

Nemesis Subwoofer
Bass-reflex design with four 10-in aluminum-cone drivers. Isobaric driver configuration. Gold-plated 5-way binding posts. Power handling 400 W; FR 20-200 Hz; sens 88 dB; imp 4 ohms. 12¾ x 46 x 23½ in; 130 lb $4,995/pr

Mediette 2-Way Speaker
Bass-reflex design with two 6½-in aluminum-cone woofers and one 1-in silk-dome tweeter. Gold-plated 5-way binding posts. Power handling 200 W; crossover point 2.5 kHz; FR 55 Hz-20 kHz ±3 dB; sens 90 dB; imp 4 ohms. 5-yr warranty. 8¼ x 22⅛ x 11¾ in; 45 lb $3,995/pr

Decimo 2-Way Minispeaker
Bass-reflex design with 6½-in aluminum-cone woofer with rubber surround and 1-in silk-dome tweeter. Gold-plated 5-way binding posts. Phase control. Power handling 150 W; crossover point 2.5 kHz; FR 55 Hz-20 kHz; sens 87 dB; imp 8 ohms. 5-yr warranty. 8¼ x 15 x 9¾ in; 30 lb $2,995/pr

STEREOSTONE
The following are camouflaged as rocks and carry limited lifetime warranties to the original purchaser. Options include 25- or 70-V line transformers, 72-W mono or stereo 12-step volume attentuation and custom color matching.

Stereo Sub-Rock Outdoor Subwoofer
Two 10-in woofers. Dual inputs with dual low-pass filters. Power handling 250 W rms; FR 55 Hz-20 kHz ±3 dB; sens 91 dB; imp 8 ohms. 22 x 19 x 22 in; 60 lb $695

Stereo Rock 2-Way Outdoor Speaker
Two 8-in santoprene woofers and two ¾-in dome tweeters. Power handling 100 W; FR 38 Hz-20 kHz ±3 dB; sens 91 dB; imp 8 ohms. 11 x 19 x 20 in; 55 lb $650
Stereo Rock/250. As above, power handling 250 W $900
Stereo Stone. As Stereo Rock, speaker/fountain version. includes 110-V water pump. 22 x 19 x 20 in; 60 lb $650
Stereo Stone/250. As above, power handling 250 W $900

Gibraltar Rock 2-Way Outdoor Speaker
8-in santoprene cone woofer and ¾-in dome tweeter. Power handling 100 W; FR 38 Hz-20 kHz ±3 dB; sens 91 dB; imp 8 ohms. 20 x 15 x 15 in; 39 lb $500
Gibraltar Rock/250. As above, power handling 250 W $650
Corner Stone. As Gibraltar Rock, 8-in santoprene woofer. 19 x 11 x 15 in; 39 lb $430
Corner Stone/250. As above, power handling 250 W $605
Yosemite Stone. As Corner Stone, 19 x 15 x 12 in; 39 lb $130
Yosemite Stone/250. As above, power handling 250 W $605

Omni Stone 2-Way Outdoor Speaker
8-in woofer and ¾-in dome tweeter. Power handling 100 W; FR 38 Hz-20 kHz ±3 dB; sens 91 dB; imp 8 ohms. 19 x 17 x 12 in; 35 lb $400
Omni Stone/250. As above, power handling 250 W $575

Classic Stone 2-Way Outdoor Speaker
6½-in woofer and ½-in dome tweeter. Power handling 100 W; FR 55 Hz-20 kHz ±3 dB; sens 89 dB; imp 8 ohms. 19 x 10 x 12 in; 30 lb $300
Classic Stone/250. As above, power handling 250 W $425
Sierra Stone. As Classic Stone, 15 x 11 x 11 in; 22 lb $300
Sierra Stone/250. As above, power handling 250 W $425
Palos Verdes 2-Way In-Wall/In-Ground Outdoor Speaker. As Classic Stone speaker, 17½ x 11½ x 4½ in $180

Palos Verdes/250. As above, power handling 250 W $279

Sierra Jr. 2-Way Outdoor Speaker
6½-in santoprene woofer and ½-in tweeter. Power handling 75 W; FR 70 Hz-20 kHz ±3 dB; sens 89 dB; imp 8 ohms. 15 x 11 x 11 in; 22 lb $150
Sierra Jr./250. As above, 250 W $300

SUNFIRE

True Subwoofer MKII Powered Subwoofer
Two 8-in drivers; amp rated at 2,700 W. Line- and speaker-level inputs. Crossover point variable from 35-100 Hz; FR 18-120 Hz +0, –3 dB. 11 x 11 x 11 in; 45 lb $1,299

SYMPHONIC LINE

The following have a mother-of-pearl finish with wood finishes available. They carry a 5-year warranty.

Belcanto 4-Way Speaker
Two 8-in aluminum-foil woofers, one 6-in aluminum-foil midrange, one ¾-in soft-dome tweeter, and one ¾-in dome supertweeter. Includes platform. Power handling 50 W; FR 23 Hz-24 kHz; sens 89 dB; imp 8 ohms. 10 x 45 x 22 in; 300 lb $21,000

Legato 2-Way Speaker
Bass-reflex design with 6½-in textile woofer and ¾-in soft-dome tweeter. 1 pair binding posts. Power handling 40 W; FR 30 Hz-21 kHz; sens 90 dB; imp 8 ohms. 8 x 40 x 12 in; 80 lb $5,600

TADDEO

Golden Voice 2-Way Speaker
Transmission-line design with three 6½-in magnesium-alloy woofers, four 1-in soft-dome tweeters, and four 2¾-in filter matrix radiators. Patented midtweeter matrix array. Power handling 300 W rms; sens 93 dB; imp 4 ohms. 9 x 52 x 22 in ...$5,495/pr

TANNOY

Tannoy's Dual Concentric drivers have integral, center-mounted tweeters. Each model carries a 5-year warranty.

Churchill 2-Way Speaker
Bass-reflex design with 15-in woofer and 1-in Dual Concentric tweeter. Includes floor stand. Power handling 500 W; crossover point 1 kHz; FR 32 Hz-20 kHz ±3 dB; sens 97 dB; imp 8 ohms. Rosewood or cherry veneer. 22 x 49 x 22 in; 180 lb ...$14,000/pr

Definition Series
The following use a bass-reflex design.

D900 3-Way Speaker
12-in woofer; 12-in midrange with 1-in Dual Concentric tweeter. Includes floor stand. Power handling 300 W; crossover points 400 Hz and 1.2 kHz; FR 28 Hz-30 kHz ±3 dB; sens 96 dB; imp 6 ohms. Rosewood or cherry veneer. 17 x 45 x 18 in; 130 lb $9,000/pr
D700. As above, 10-in woofer and 10-in midrange. Power handling 200 W; crossover points 400 Hz and 1.5 kHz; FR 35 Hz-30 kHz ±3 dB; sens 95 dB. 15 x 39 x 14 in; 90 lb $5,300/pr
D500. As above, 8-in woofer and 8-in midrange. Power handling 175 W; crossover points 400 Hz and 1.7 kHz; FR 37 Hz-30 kHz ±3 dB; sens 93 dB. 12 x 37 x 13 in; 62 lb $3,800/pr

D750 3-Way Center-Channel Speaker
Two 8-in woofers and 8-in midrange with 1-in Dual Concentric tweeter. Magnetic shielding. Power handling 200 W; FR 45 Hz-30 kHz ±3 dB; sens 92 dB; imp 6 ohms. Rosewood or cherry side panels. 32 x 10 x 16 in $2,400

PS 115 Powered Subwoofer
15-in woofer; 125-W amp. RCA line-level input. FR 33-130 Hz. 20 x 18 x 20 in; 53 lb $1,250

Saturn Series
The following have a black-ash vinyl finish.

S10 3-Way Speaker
Bass-reflex design with 10-in polypropylene woofer and 10-in midrange with coaxially mounted 1-in alloy tweeter. Power handling 200 W; crossover points 400 Hz and 1.5 kHz; FR 29 Hz-20 kHz ±3 dB; sens 93 dB; imp 6 ohms. 12 x 44 x 14 in; 33 lb $2,100/pr
S8. As above, 8-in polypropylene woofer and 8-in midrange. Power handling 175 W; crossover points 400 Hz and 1.7 kHz; FR 30 Hz-20 kHz ±3 dB; sens 91 dB. 10 x 38 x 12 in; 30 lb ...$1,500/pr
S6. As above, 6-in polypropylene woofer and 6-in midrange. Power handling 120 W; crossover points 400 Hz and 1.8 kHz; FR 31 Hz-20 kHz ±3 dB; sens 90 dB. 8 x 34 x 12 in; 27 lb $1,200/pr

S8LCR 2-Way Bookshelf Speaker
Coaxial bass-reflex design with 8-in polypropylene woofer and 1-in alloy tweeter. Magnetic shielding. Power handling 150 W; crossover point 1.7 kHz; FR 50 Hz-20 kHz ±3 dB; sens 90 dB; imp 8 ohms. 18 x 10 x 11 in; 17 lb $600
S6CLR. As above, 6-in polypropylene woofer. Power handling 125 W; crossover point 1.8 kHz; FR 60 Hz-20 kHz ±3 dB; sens 89 dB. 15 x 8 x 11 in; 14 lb $450

Mercury Series
The following use a bass-reflex design and 1-in silk-dome tweeter.

M5 3-Way Speaker
8-in paper-cone woofer, 8-in midrange. Power handling 120 W; crossover point variable from 400 Hz-2.5 kHz; FR 32 Hz-20 kHz ±3 dB; sens 92 dB; imp 6 ohms. Black ash vinyl. 10 x 38 x 11 in; 30 lb $900/pr
M4. As above, 6-in woofer and midrange. Power handling 100 W; sens 91 dB.. 8 x 34 x 11 in; 25 lb $700/pr

M3 2-Way Speaker. 6½-in paper-cone woofer. Floor stand. Power handling 90 W; crossover point 2.5 kHz; FR 35 Hz-20 kHz ±3 dB; sens 89 dB; imp 8 ohms. Bird's-eye or cherry front baffle. 8 x 33 x 11 in; 22 lb $550/pr
M2 2-Way. As above, bookshelf version. No floor stand. Power handling 80 W; FR 48 Hz-20 kHz ±3 dB; sens 88 dB. 8 x 15 x 11 in; 14 lb $350/pr

M1 2-Way Bookshelf Speaker
5¼-in paper-cone woofer. Power handling 70 W; crossover point 2.5 kHz; FR 55 Hz-20 kHz ±3 dB; sens 87 dB; imp 8 ohms. Bird's-eye or cherry front baffle. 7 x 12 x 8 in; 10 lb $250/pr

MC 2-Way Center-Channel Speaker
Two 4-in paper-cone woofers. Magnetic shielding. Power handling 80 W; crossover point 2.5 kHz; FR 70 Hz-20 kHz ±3 dB; sens 90 dB; imp 8 ohms. Black ash vinyl. 17 x 6 x 7 in; 13 lb $250

TDL ELECTRONICS

Reference Standard 3-Way Speaker
Transmission-line design with two 12 x 8-in polystyrene glass-fiber cone woofers, two 6-in black-anodized aluminum-cone midranges, and one 1-in black-anodized aluminum tweeter. Power handling 50 W min, 300 W max; crossover point selectable at 300 Hz, 2 kHz, or 13 Hz; FR 16 Hz-35 kHz; sens 89 dB; imp 8 ohms. Walnut or black ash finish. Lifetime warranty. 22 x 48 x 20 in; 175 lb ...$15,000/pr

Studio Monitor M Speaker
Transmission-line design with 12 x 8-in polystyrene glass-fiber cone driver. Power handling 50 W min, 150 W max; FR 18 Hz-20 kHz; sens 87 dB; imp 8 ohms. Walnut or black ash finish. Lifetime warranty. 13 x 37 x 17 in; 110 lb $7,500/pr

Cheviot CF300 2-Way Speaker
Reflex transmission-line design with 6½-in carbon-fiber cone woofer and 1-in aluminum-dome tweeter. Power handling 30 W min, 120 W max; crossover point 2 kHz; FR 30 Hz-20 kHz; sens 90 dB; imp 8 ohms. Oak, cherry, or mahogany finish. Lifetime warranty. 9 x 37 x 12 in; 42 lb $2,250/pr
Cotswold CF200. As above, power handling 30 W min, 100 W max; FR 35 Hz-20 kHz; sens 87 dB. Oak, cherry, mahogany, or rosewood finish. 9 x 30 x 9 in; 31 lb $1,750/pr

RTL 4 2-Way Speaker
Reflex transmission-line design with two 8-in polypropylene woofers and one 1-in soft-dome tweeter. Power handling 20 W min, 150 W max; crossover point 3 kHz; FR 30 Hz-20 kHz; sens 90 dB; imp 8 ohms. Black ash, rosewood, or cherry finish. Lifetime warranty. 11 x 37 x 15 in; 51 lb $1,499/pr
RTL 3SE. As above, two 6½-in polypropylene woofers. Power handling 20 W min, 120 W max; crossover point 2.5 kHz. 8 x 35 x 15 in; 47 lb $1,129/pr

Chiltern CF100 2-Way Bookshelf Speaker
Reflex transmission-line design with 6-in carbon-fiber cone woofer and 1-in aluminum-dome tweeter. Power handling 30 W min, 100 W max; crossover point 2 kHz; FR 40 Hz-20 kHz; sens 85 dB; imp 8 ohms. Oak, cherry, mahogany, or rosewood finish. Lifetime warranty. 8 x 12 x 9 in; 16 lb ...$1,250/pr

RTL 2SE 2-Way Speaker
Reflex transmission-line design with 6½-in polypropylene woofer and 1-in soft-dome tweeter. Power handling 20 W min, 80 W max; crossover point 3 kHz; FR 35 Hz-20 kHz; sens 87 dB; imp 8 ohms. Black ash, rosewood, or cherry finish. Lifetime warranty. 8 x 29 x 15 in; 27 lb $729/pr

Nucleus 3 2-Way Speaker
Bass-reflex design with 5¼-in woofer and ¾-in soft-dome tweeter. Power handling 15 W min, 60 W max; crossover point 3 kHz; FR 40 Hz-20 kHz; sens 89 dB; imp 4 or 8 ohms. Black ash, rosewood, or cherry finish. Lifetime warranty. 8 x 30 x 9 in; 22 lb $529/pr
Nucleus 2. As above, bookshelf version. 8 x 12 x 9 in; 11 lb $329/pr

Nucleus SBR Subwoofer
Transmission-line design with two 7-in long-throw drivers. Power handling 80 W; crossover point 150 Hz; FR 30-120 Hz; sens 90 dB; imp 4 or 8 ohms. Black sand-textured finish. Lifetime warranty. 8 x 16 x 20 in; 25 lb $499

Nucleus CCS 2-Way Center-Channel Speaker
Transmission-line design with two 4-in woofers and one ¾-in soft-dome tweeter. Magnetic shielding. Power handling 80 W; crossover point 4 kHz; FR 80 Hz-20 kHz; sens 87 dB; imp 8 ohms. Black sand-textured finish. 17 x 6 x 11 in; 17 lb $329

Nucleus 1 2-Way Bookshelf Speaker
Infinite-baffle design with 5¼-in woofer and ¾-in cone tweeter. Power handling 10 W min, 50 W max; crossover point 5 kHz; FR 60 Hz-20 kHz; sens 86 dB; imp 8 ohms. Black ash, rosewood, or cherry finish. Lifetime warranty. 7 x 10 x 7 in; 7 lb $229/pr

TEAC

SU-B500 Subwoofer/Satellite System
3-piece system with one subwoofer with two 5¼-in woofers; two 2-way satellite speakers. Power handling 80 W rms; FR 80-20 kHz system; sens 85 dB. Ebony finish. Subwoofer: 7⅛ x 10⅛ x 17⅛ in. Satellite: 5 x 8¼ x 5⅛ in $199

SE-B300 Center/Surround System
3-speaker system with one center speaker with 5⅛-in woofer and 2½-in tweeter; two satellites, each with 5⅛-in woofer and 2½-in. Magnetic shielding. 2 sets RCA jacks; 1 set external speaker terminals. 5-band graphic EQ; volume, balance, and mixer controls. Includes headphones. Power handling 12 W; FR 30 Hz-20 kHz system. Ivory. Each speaker: 12¼ x 3¾ x 11¾ in; 7 lb $149

SS-350 Center/Surround System
3-speaker system featuring center speaker with two 3⅛-in woofers and one 2-in tweeter; two surround speakers, each with one 4-in driver. Magnetic shielding on center speaker. FR 80 Hz-20 kHz center, 80 Hz-180 kHz surround; imp 8 ohms center and surround. Ebony finish. Center: 18½ x 5½ x 5¼ in. Surround: 5½ x 8½ x 6 in $149

LSC-400 2-Way Center-Channel Speaker
Four 3-in woofers and one 2-in tweeter. Magnetic shielding. Power handling 80 W; FR 80 Hz-20 kHz; sens 90 dB; imp 8 ohms. Ebony finish. 19¾ x 4¾ x 7½ in $129

PowerMax 160/2 Powered Computer Speaker System
2 speakers, each with 4-in woofer and 2-in tweeter. Magnetic shielding. Volume, treble, and bass controls; loudness function; amp power indicator. Includes connection cable. FR 50-20 kHz system. Ivory. 5⅜ x 10¾ x 6⅜ in $99

TECHNICS

SB-AS60 Powered Subwoofer
Kelton-type design with 6¾-in woofer; amp rated at 100 W. Outer-cavity-housing passive radiator; inner cavity for driver. Speaker- and line-level inputs. Phase-reverse switch; overload indicator; volume control. Crossover point selectable at 50 and 200 Hz; FR 32-200 Hz; sens 86 dB; imp 8 ohms. 17⅜ x 11⅞ x 13 in; 31 lb $400

SB-AS500 Powered Subwoofer
Two down-firing 5½-in drivers; 200-W amp. Variable low-pass filter. Auto power on/off; phase switch. Sens 83 dB; imp 4 ohms. 27 lb $350

SB-T200 2-Way Powered Speaker
Two 5½-in aluminum woofers and one soft-dome tweeter; 200-W amp. Magnetic shielding. Crossover point 3 kHz; FR 38 Hz-40 kHz; sens 86 dB; imp 8 ohms. 8½ x 37 x 11 in; 60 lb $300/pr

SB-LV500 2-Way Powered Center Speaker
Bass-reflex design with two woofers and one soft-dome tweeter; 200-W amp. Magnetic shielding. Crossover point 2.5 kHz; FR 75 Hz-40 kHz; sens 81 dB; imp 8 ohms. 4⅜ x 17¾ x 6⅞ in; 8 lb . . .$250/pr

SB-S500 2-Way Surround Speaker
Dipolar design with 3⅛-in full-range cone driver and soft-dome tweeter. Detachable grille; wall-mountable. 25 lb $250/pr

SB-LX90 3-Way Speaker
Bass-reflex design with 15-in woofer, 4-in cone midrange, and 2⅝-in cone tweeter. Rounded baffle edges. Power handling 200 W; crossover points 3 and 6 kHz; FR 31 Hz-22 kHz; imp 8 ohms. 18½ x 32⅜ x 12⅞ in $240
SB-LX70. As above, 12-in woofer. FR 33 Hz-22 kHz. 15 x 27⅝ x 10⅝ in; 22 lb $170/pr
SBX-LX50. As above, 10-in woofer. Power handling 140 W; crossover points 4 and 6 kHz; FR 35 Hz-22 kHz. 13⅜ x 24⅞ x 10⅝ in; 19 lb $140/pr

SB-AS40 Powered Subwoofer
Bass-reflex design with 6¾-in woofer; amp rated at 50 W. Low-pass filter; magnetic shielding. Line- and speaker-level inputs. Phase switch; auto power on/off. FR 32-350 Hz. 15⅛ x 11¼ x 11⅝ in; 19 lb $220

SB-C500 Center-Channel Speaker
Bass-reflex design with detachable grille. FR 75 Hz-40 kHz; sens 81 dB; imp 8 ohms. 17¾ x 5 x 6⅞ in; 8 lb $200

SB-LV310 2-Way Speaker
Bass-reflex design with 10-in cone woofer and 2½-in cone tweeter. Magnetic shielding; rounded baffle edges. Power handling 140 W; crossover point 3 kHz; FR 38 Hz-22 kHz; sens 89 dB; imp 8 ohms. 12⅝ x 23⅜ x 10⅝ in; 20 lb $130/pr
SB-LV110. As above, 6¾-in cone woofer. FR 46 Hz-22 kHz; sens 88 dB. 9¼ x 15 x 8 in; 8 lb $110/pr

SB-LX30 2-Way Speaker
Bass-reflex design with 10-in woofer and 2⅝-in cone tweeter. Rounded baffle edges. Power handling 140 W; crossover point 3 kHz; FR 38 Hz-22 kHz; imp 8 ohms. 12⅝ x 23⅝ x 10⅜ in; 17 lb $120/pr
SB-LX10. As above, bookshelf version. 6¾-in woofer. Power handling 120 W; FR 46 Hz-22 kHz. 9⅜ x 15 x 8⅛ in; 8 lb $100/pr

TERK

Troubadour 5.1
Powered Wireless Speaker System
Three-piece system with two magnetically-shielded speakers, each with point-source driver configuration, 20-W rms amp, and RF receiver. 900-MHz RF transmitter. Auto tuning system $400

TERPSICHORE

Van Arsdale 3-Way Speaker
Transmission-line design with 8-in Eton honeycomb Nomex/Kevlar woofer, 4-in Eton midrange, and 1-in titanium tweeter. Laser-matched drivers. Triampable terminals. Power handling 250 W; FR 32 Hz-20 kHz ±2 dB; sens 90 dB; imp 8 ohms. Various finishes available. 17 x 42 x 16 in; 180 lb $4,000/pr

Landes Monitor 2-Way Bookshelf Ribbon Speaker
7½-in Focal dual-voice-coil Kevlar woofer and Pioneer ribbon tweeter. 6-dB/oct woofer crossover; phase-corrected 12-dB/oct tweeter crossover; Tara Labs wiring. Gold-plated binding posts. 16 ohms optional. Power handling 100 W; FR 45 Hz-24 kHz; sens 91 dB; imp 4 ohms. Available in custom wood finish. 8 x 10 x 16 in; 19 lb $900/pr
Floor-standing version of Landes Monitor, with 4 ribbon tweeters $1,700/pr
Floor-standing version of Landes Monitor, with sand filling $1,000/pr

SSS Monitor 2-Way Bookshelf Speaker
5½-in polypropylene woofer and 1-in titanium-dome tweeter. Magnetic shielding. Power handling 70 W; FR 55 Hz-20 kHz; sens 90 dB; imp 6 ohms. Available in custom stained-wood finish. 7 x 10 x 12 in; 12 lb $500/pr

THIEL

The following have synthesized 6-dB/oct crossover networks. Standard finishes are walnut and black wood; other finishes are available by special order. Each model carries a 10-year warranty.

CS7.2 4-Way Speaker
12-in woofer, 6½-in woofer, and 3-in midrange with coaxially mounted 1-in metal-dome tweeter. Cast-concrete front baffle. Power handling 100 W min, 500 W max; FR 25 Hz-17 kHz ±1.5 dB; sens 86 dB; imp 4 ohms. 55 x 14 x 19 in; 155 lb $13,500/pr

CS6 3-Way Speaker
10-in woofer and 4-in midrange with coaxially mounted 1-in dome tweeter. Aluminum diaphragm drivers; concrete front baffle. Power handling 100 W min, 500 W max; FR 285 Hz-18 kHz ±2 dB; sens 86 dB; imp 4 ohms. 50 x 13 x 18½ in; 175 lb $7,900/pr

CS3.6 3-Way Speaker
10-in woofer, 4½-in midrange, and 1-in metal-dome tweeter. Power handling 100 W min, 400 W max; FR 29 Hz-20 kHz ±1.5 dB; sens 86 dB; imp 4 ohms. 48½ x 12½ x 17 in; 107 lb $4,300/pr

CS2.3 3-Way Speaker
8-in aluminum-diaphragm woofer and 3-in aluminum-diaphragm midrange with 1-in coaxially mounted metal-dome tweeter. Phase-coherent crossovers. Includes stabilizer pins. Power handling 400 W; FR 37 Hz-20 kHz ±2 dB; sens 86 dB; imp 4 ohms. 11 x 41½ x 15 in; 70 lb $3,300/pr

MCS1 2-Way Speaker
Coaxial design with two 6½-in aluminum-diaphragm woofers with 3-in aluminum-diaphragm midrange and one 1-in metal-dome tweeters. Phase-coherent crossover. Power handling 25 W min; FR 46 Hz-20 kHz ±2 dB; sens 90 dB; imp 4 ohms. 10 x 29 x 12 in; 60 lb $2,200

CS1.5 2-Way Speaker
6½-in woofer and 1-in metal-dome tweeter. Magnetic shielding. Power handling 50 W min, 150 W max; FR 42 Hz-22 kHz ±3 dB; sens 86 dB; imp 4 ohms. 33 x 8½ x 11 in; 42 lb $2,190/pr

CS.5 2-Way Speaker
6½-in woofer and 1-in metal-dome tweeter. Power handling 30 W min, 150 W max; FR 55 Hz-20 kHz ±3 dB; sens 87 dB; imp 4 ohms. 31 x 8 x 11 in; 35 lb $1,450/pr

SCS3 2-Way Bookshelf Speaker
Coaxial design with 6½-in woofer and 1-in metal-dome tweeter. Magnetic shielding. Power handling 30 W min, 200 W max; FR 46 Hz-20 kHz ±3 dB; sens 87 dB; imp 4 ohms. 19 x 7½ x 10½ in; 31 lb $1,300

THORENS

The following use a bass-reflex design and have black ash, cherrywood, or beechwood finishes.

TSP 100 2-Way Speaker
Two 7-in Kevlar woofers and one 1-in dome tweeter. Power handling 120 W rms; FR 40 Hz-20 kHz; sens 92 dB; imp 4 or 8 ohms $1,700

TSP 80 2-Way Speaker
Two 5-in Kevlar woofers and one ¾-in dome tweeter. Power handling 100 W rms; FR 50 Hz-20 kHz; sens 91 dB; imp 4 or 8 ohms $1,300

TSP 40 2-Way Bookshelf Speaker
5-in Kevlar woofer and ¾-in dome tweeter. Power handling 60 W rms; FR 50 Hz-20 kHz; sens 88 dB; imp 4 or 8 ohms $900

TIC

TS 10 B Forest Stone 2-Way Outdoor Speaker
Coaxial design with 8-in polypropylene woofer and 3-in Mylar tweeter. Aerospace-grade composite cabinet. Includes 30-ft cable. Power handling 150 W; crossover point 4.5 kHz; FR 50 Hz-20 kHz; sens 90 dB; imp 8 ohms. Simulated forest-stone with bone, ivory, canyon, or slate standard finish; custom finishes available. 14¾ x 19½ x 11½ in; 15 lb $220
TS 11 B Mountain Stone. As above, simulated mountain stone. 19½ x 19½ x 11½ in; 16 lb . . .$250

GS 7L Omni-Light Outdoor Speaker
8-in polypropylene full-range driver. Doubles as in-ground garden light. ABS cabinet with built-in light; omnidirectional sound. Includes 50-ft cable and 70-V transformer. Power handling 150 W; crossover point 4.5 kHz; FR 50 Hz-20 kHz; sens 90 dB; imp 8 ohms. Textured ABS finish. 12¾ x 12¾ x 13¼ in; 13 lb $180

TS 5 A Bluff Stone 2-Way Outdoor Speaker
Coaxial design with 8-in polypropylene woofer and 2-in Mylar tweeter. Aerospace-grade composite cabinet. Includes 30-ft cable. Power handling 100 W; crossover point 4.5 kHz; FR 40 Hz-20 kHz; sens 91 dB; imp 8 ohms. Simulated bluff-stone with bone, ivory, canyon, or slate standard finish; custom finishes available. 10⅜ x 16½ x 12 in; 11 lb . . .$170
TS 6 A Hill Stone. As above, simulated hill stone. 14¼ x 17½ x 12 in $185
TS 9 A Plateau Stone. As above, simulated plateau stone. 13½ x 14 x 11½ in $180
TS 7 A Shore Stone. As above, simulated shore stone. 11½ x 15¾ x 12 in $175
TS 6 B Pro-Hill Stone. As Hill Stone, power handling 150 W; FR 50 Hz-20 kHz; sens 91 dB. 10¾ x 16½ x 12 in $200

GS 5P Mini-Omni Outdoor Speaker
5½-in polypropylene full-range driver. ABS cabinet; omnidirectional sound. Includes 30-ft cable. Power handling 80 W; crossover point 4.5 kHz; FR 65 Hz-20 kHz; sens 83 dB; imp 8 ohms. Textured ABS. 8½ x 8½ x 9½ in; 8 lb $140/pr

GS 3T Pro-Omni Outdoor Speaker
8-in polypropylene full-range driver. ABS cabinet; omnidirectional sound. Includes 50-ft cable and 70v transformer. Power handling 100 W; crossover point 4.5 kHz; FR 40 Hz-20 kHz; sens 91 dB; imp 8 ohms. Textured ABS. 12¾ x 12¾ x 12¾ in; 12 lb $130

PSB 360 3-Way Outdoor Speaker
4-in woofer, 2-in midrange, and 1-in tweeter. ABS cabinet. Includes 50-ft cable. Power handling 60 W; crossover point 4.5 kHz; FR 50 Hz-18 kHz; sens 90 dB; imp 8 ohms. Black. 5½ x 9 x 6 in; 7 lb . . .$80/pr
PSW 360. As above, white $80/pr

TOBY

TS-97 2-Way Satellite Speaker
Transmission-line design with two 5¼-in woofers and one 1-in metal-dome tweeter. Passive crossover at 100 Hz to match CCR sub. Includes computer graph. Power handling 100 W; crossover points 100 Hz and 2 kHz; FR 100 Hz-20 kHz ±3 dB; sens 89 dB; imp 6 ohms. Column wrapped in black grille cloth, black epoxy top and base. 5-yr warranty. 7¼ x 5½ x 50 in; 27 lb $800/pr

D-55 Column 2-Way Speaker
Bass-reflex design with 8-in woofer and 1-in fabric-dome tweeter. Enclosure is critically braced and lined with bituminous rubber. Power handling 70 W; crossover point 2.5 kHz; FR 35 Hz-20 kHz ±3 dB; sens 87; imp 6 ohms. Finished in black, walnut and dark oak laminates, or textured black epoxy. 10 x 37½ x 12 in $799/pr

SS-93 2-Way Satellite Speaker
Transmission-line design with 6½-in mica-doped woofer and 1-in metal-dome tweeter. Mirror-imaging; passive crossover at 100 Hz to match CCR sub. Includes computer graph. Power handling 100 W; crossover points 100 Hz and 2 kHz; FR 100 Hz-20 kHz ±3 dB; sens 86 dB; imp 8 ohms. Black, oak, or walnut laminate. 5-yr warranty. 7¼ x 7¾ x 11¾ in; 11 lb $550/pr

CCR Subwoofer
Bandpass design with 10-in dual-voice-coil driver. Matches Toby satellites to cross over at 100 Hz. Left and right input. Power handling 60 W/ch; FR 35-85 Hz; sens 87 dB; imp 4 ohms. Oak, walnut, or black laminate. 5-yr warranty. 19 x 19 x 16 in; 49 lb. Cabinet is end-table size, 16 x 16 x 19-in $450
Unfinished $350

RC-94 2-Way Surround Speaker
Acoustic-suspension design with 6½-in mica-doped woofer and one 1-in metal-dome tweeter. Complements Toby satellites and center channel speaker for theater sound matching. Power handling 60 W; crossover point 2 kHz; FR 55 Hz-20 kHz; sens 87 dB; imp 8 ohms. Black epoxy, black knit grille. 16 x 7¼ x 7¾ in; 12 lb $325/pr

CC-94 2-Way Center-Channel Speaker
6½-in mica-doped woofer; 1-in titanium-dome tweeter mounted outside cabinet above woofer for horizontal polar pattern. Magnetic shielding. Power handling 60 W; crossover point 3 kHz; FR 55 Hz-20 kHz ±3 dB; sens 87 dB; imp 8 ohms. Black epoxy. 5-yr warranty. 16 x 9¼ x 7¾ in; 12 lb $250

TOSHIBA

SST6200 2-Way Speaker
Bass-reflex design with 6½-in polypropylene woofer and 1½-in dipole ribbon tweeter. 360° dispersion. Gold-plated 5-way binding posts. Power handling 100 W max; crossover point variable from 2-5 kHz; FR 45 Hz-20 kHz ±3 dB; sens 89 dB. Black ash with black grille cloth. 8 x 32 x 9½ in; 22 lb $750/pr

SSW1020 Powered Subwoofer
Bass-reflex design with two 10-in woofers; 130-W amp. Horizontally-opposed drivers. Line-level input. Level control; phase-reverse switch. Crossover point adjustable from 70-200 Hz; FR 18-200 Hz. Black ash. 31¼ x 16 x 17½ in; 80 lb $750

SSC5300 2-Way Center-Channel Speaker
Bass-reflex design with two 5¼-in woofers and one 2-in monopole ribbon tweeter. 120° vertical dispersion. Gold-plated 5-way binding posts. Power handling 100 W max; crossover point variable from 2-8 kHz; FR 50 Hz-20 kHz; sens 89 dB. Black ash with black grille cloth. 18 x 6 x 14 in; 12 lb $250

TRIAD

InRoom Platinum Powered Subwoofer
Acoustic-suspension design with 18-in woofer; 500-W amp. 12-dB/oct low-pass filter variable from 50 to 180 Hz; servo control. Independent left, right and sub-in inputs. Input-level control; 0 to 180° phase control. FR 18-180 Hz –3 dB. 19⅝ x 19⅝ x 18½ in $2,000

InRoom Bronze DualSub 2-Way Powered Speaker
Acoustic-suspension design with 12-in woofer with 3-in voice coil and cast-frame 12-in long-throw paper-cone woofer; 250-W amp. THX certified; magnetic shielding. 2 line-level outputs. Level control. FR 20-180 Hz. Painted finish or veneer. 16 x 16¾ x 15½ in; 35 lb $1,600

InRoom Gold Powered Subwoofer
Two 10-in woofers in push-pull configuration; 250-W amp. 12-dB/oct low-pass filter variable from 50-180 Hz; servo control. Independent left, center, and right inputs. Center-channel recovery circuit; input-level control; 0 to 180° phase control; auto turn-on. FR 19-180 Hz –3 dB. 19½ x 17¼ x 17½ in $1,500
InRoom Silver. As above, 8-in drivers. 17¼ x 15⅝ x 16 in $1,250

OnWall Gold 2-Way THX Dipolar Surround Speaker
Dipolar bass-reflex design with two 6½-in polypropylene woofers and two 1-in fabric-dome tweeters. THX-certified. Mounts on wall or ceiling. In-wall version optional. Power handling 100 W min, 300 W max; FR 60 Hz-20 kHz ±3 dB; sens 88 dB; imp 4 ohms. 13¼ x 18 x 5½ in $1,100

InRoom Bronze Powered Subwoofer
10-in woofer; 150-W amp. 12-dB/oct low-pass filter variable from 50 to 180 Hz; servo control. Independent left, center, and right inputs. Center-channel recovery circuit; input-level control; 0 to 180° phase control; auto turn-on. FR 19-180 Hz –3 dB. 13½ x 14¼ x 14 in $1,000

InRoom Gold LCR 2-Way THX Bookshelf Speaker
Acoustic-suspension design with two 6½-in polypropylene woofers and one 1-in silk-dome tweeter. THX-certified; tweeter mounted in a dispersion-control lens; magnetic shielding. Power handling 300 W; FR 80 Hz-20 kHz; sens 90 dB; imp 4 ohms. 8½ x 17½ x 8 in $1,000
InRoom Gold LCR Horizontal. As above, dispersion control lens with lighted aiming device. 22 x 8½ x 8 in $1,100

OnWall Silver 2-Way THX Dipolar Surround Speaker
Acoustic-suspension dipolar design with two 5½-in polypropylene woofers and two 1-in fabric-dome tweeters. THX-certified. Mounts on wall. In-wall version optional. Power handling 100 W; FR 125 Hz-8 kHz ±3 dB; sens 88 dB; imp 4 ohms. 13¼ x 13¼ x 5½ in $900

InRoom Silver LCR 2-Way Satellite Speaker
Acoustic-suspension design with two 5½-in polypropylene woofers and one 1-in silk-dome tweeter. Tweeter mounted in a dispersion-control lens; magnetic shielding. Power handling 125 W; FR 100 Hz-20 kHz ±2 dB; sens 90 dB; imp 4 ohms. 8½ x 15½ x 7 in $800

InRoom Bronze Center 3-Way Bookshelf/ Center-Channel Speaker
Acoustic-suspension design with one cast-frame 8-in long-throw paper-cone woofer, two 3-in paper-cone midranges, and one 1-in fabric-dome tweeter. Magnetic shielding; braced cabinet. 2 inputs. Power handling 125 W; FR 80 Hz-20 kHz; sens 89 dB; imp 4 ohms. Painted finish or veneer. 19 x 10 x 7 in; 28 lb $750
InRoom Bronze LCR. As above, bookshelf version. 9¾ x 18½ x 6½ in; 25 lb $700

OnWall Bronze Surround 3-Way In-Wall Surround Speaker
Acoustic-suspension dipolar design with one 6½-in polypropylene-cone woofer, two 3-in midranges, and two 1-in Mylar-dome tweeters. Braced cabinet. 2 inputs. Power handling 125 W; FR 80 Hz-20 kHz; sens 83 dB; imp 4 ohms. Painted finish. Rectangular frame. Mounting area: 13½ x 14 in. Mounting depth 4 in $600

InRoom Gold 2-Way Satellite Speaker
6½-in polypropylene woofer and 1-in silk-dome tweeter. Magnetic shielding optional. Power handling 125 W; FR 72 Hz-20 kHz; sens 87 dB; imp 4 ohms. 7¾ x 12¾ x 6¾ in $425

InRoom Silver 2-Way Satellite Speaker
5½-in polypropylene woofer and 1-in fabric-dome tweeter. Magnetic shielding optional. Power handling 100 W; FR 100 Hz-200 kHz ±2 dB; sens 90 dB; imp 8 ohms. 6½ x 10¾ x 6 in $350

InRoom Bronze 2-Way Satellite Speaker
4½-in coated-paper woofer and ¾-in fabric-dome tweeter. Magnetic shielding optional. Power handling 75 W; FR 110 Hz-20 kHz ±3 dB; sens 89 dB; imp 4 ohms. 5¼ x 9 x 4½ in $250

ULTIMATE SOUND

TWR-1200 3-Way Speaker
Bass-reflex design with one 12-in polymer-laminate cone woofer with butyl-rubber surround, two 6½-in polypropylene-cone midranges, and one 1-in soft-dome tweeter. Impedance-matched crossover; phase-array alignment; magnetic shielding. Biampable terminals; 4 input terminals. Power handling 300 W; FR 28 Hz-25 kHz ±3 dB; sens 92 dB; imp 6 ohms. Black lacquer finish with black-metal grille. 18 x 48 x 16 in; 82 lb $850

HT-1000 Powered Home Theater System
HT-SW10 subwoofer; 2 HT-F45 front speakers; 2 HT-R45 surround speakers; center-channel speaker with built-in Dolby Pro Logic integrated amp rated at 40 W x 5 (front, center, surround) + 70 x 1 (subwoofer) all rms. 2 video inputs. Separate volume controls for each channel; 5 ambience modes; remote control. 23 x 22½ x 30 in; 75 lb $500

SW-1212 Powered Subwoofer
12-in polymer-laminate cone woofer with butyl-rubber surround; amp rated at 250 W rms. Magnetic shielding; built-in crossover. 6 input and output terminals; line- and speaker-level input. Remote control of crossover frequency and output level; auto turn-on. Includes 2 AA batteries and 2 sets of wires. FR 22-150 Hz ±3 dB; imp 4 ohms. Charcoal-oak vinyl finish with black-knit grille. 17¾ x 24¼ x 19¾ in; 46 lb $500
SW-1010. As above, 10-in woofer; amp rated at 150 W rms. FR 30-150 Hz ±3 dB. 16 x 20¾ x 20 in; 43 lb $400

TTR-12 3-Way Speaker
Bass-reflex design with 12-in polymer-laminate

cone woofer with butyl-rubber surround, two 4½-in cone midranges, and one 1-in silk-dome tweeter. Phase-array alignment; impedance-matched crossover; magnetic shielding. Biampable terminals; 4 input terminals. Power handling 250 W; FR 30 Hz-5 kHz ±2 dB; sens 92 dB; imp 8 ohms. Charcoal-oak vinyl finish with black metal grille. 8 x 48 x 16 in; 49 lb $450

TTR-10. As above, 10-in polymer-laminate cone woofer with butyl-rubber surround. Power handling 200 W. 8 x 44 x 16 in; 46 lb $400

ST-1212 Powered Subwoofer
12-in polyamide woofer and butyl-rubber surround; 100-W amp. Magnetic shielding; built-in crossover. 6 input and output terminals; line- and speaker-level inputs. Includes 2 sets of wires. FR 25-125 Hz ±3 dB; imp 4 ohms. Charcoal-oak vinyl with black-knit grille. 17¾ x 24¼ x 19¾ in; 44 lb $400

ST-1010 Powered Subwoofer
10-in polymer-laminate cone woofer with butyl-rubber surround; 100-W amp. Built-in crossover. 6 input and output terminals; line- and speaker-level inputs. Includes 2 sets of wires and 2 AA batteries. FR 25-150 Hz ±3 dB; imp 4 ohms. Charcoal-oak vinyl finish with black-knit grille. 16 x 20¾ x 20 in; 41 lb $300

SW-608 Powered Subwoofer
8-in polymer-laminate cone woofer with butyl-rubber surround; amp rated at 120 W rms. Built-in crossover; magnetic shielding. 6 inputs including line- and speaker-lever inputs; 6 outputs. Remote control of crossover frequency and output level; auto turn-on. Includes 2 AA batteries and 2 sets of wires. FR 45-150 Hz ±3 dB; imp 4 ohms. Charcoal-oak vinyl finish with black-knit grille. 16 x 20¾ x 16¼ in; 31 lb $300

HT-SW10 Subwoofer
10-in polymer-laminate cone woofer with butyl-rubber surround. Magnetic shielding. 2 input terminals. Includes 2 sets of cables. Power handling 100 W; FR 50-200 Hz ±2 dB; sens 90 dB; imp 6 ohms. Charcoal-oak vinyl finish with black-knit grille. 12⅝ x 17¼ x 17 in; 31 lb $170

SC-45 2-Way Center-Channel Speaker
Two 4½-in polymer-laminate cone midrange with butyl-rubber surround and one ½-in polycarbonate tweeter. Magnetic shielding. 2 input terminals. Power handling 100 W; FR 100 Hz-25 kHz ±2 dB; sens 90 dB; imp 6 ohms. Charcoal-oak vinyl finish with black-knit grille. 15¾ x 6 x 4¾ in; 11 lb $100

HT-F45 2-Way Front/Surround Speaker
4½-in injection-molded woofer and ½-in silk-neodymium tweeter. Magnetic shielding. 2 input terminals. Includes 1 sets of wires. Power handling 50 W; FR 70 Hz-20 kHz ±2 dB; sens 90 dB; imp 6 ohms. Charcoal gray with black metal grille. 5⅜ x 8½ x 5 in; 4 lb $80

SFS-802 2-Way Bookshelf Speaker
Bass-reflex design with 8-in polylaminate-cone woofer and ½-in polycarbonate tweeter. Magnetic shielding. 2 input terminals. Power handling 100 W; FR 65 Hz-25 kHz ±2 dB; sens 90 dB; imp 6 ohms. Charcoal-oak vinyl finish with black-knit grille. 10 x 16 x 12½ in; 15 lb $80

HT-R45 Surround Speaker
4½-in woofer. 2 input terminals. Includes 2 sets of cable. Power handling 50 W; FR 70 Hz-20 kHz ±2 dB; sens 90 dB; imp 6 ohms. Charcoal gray finish with black metal grille. 5⅜ x 8½ x 5 in; 4 lb $66

VANDERSTEEN AUDIO

Model 5 5-Way Speaker/Powered Subwoofer
Powered subwoofer section with 12-in dual-motor long-throw aluminum-cone driver and 400-W amp; speaker section with 7-in polypropylene woofer, 4½ in polypropylene-cone midrange, 1-in dual-chamber metal-dome tweeter, and ¾-in metal-dome tweeter. 6-dB/oct crossovers. User-adjustable subwoofer Q and room-response compensation. Crossover points 100 Hz, 600 Hz and 5 kHz; FR 22 Hz-30 kHz; sens 87 dB; imp 6 ohms. 14 x 42 x 20 in; 225 lb $9,800/pr

Ultimate Sound HT-1000 powered home-theater system

Model 3A 3-Way Speaker
10-in active aluminum-cone acoustic coupler, 8-in polypropylene woofer, 4½-in polypropylene-cone midrange, and 1-in ferrofluid-cooled metal-dome tweeter. Power handling 200 W; crossover points 600 Hz and 5 kHz; FR 26 Hz-30 kHz; sens 88 dB; imp 6 ohms. 16 x 48 x 10¼ in; 102 lb ...$2,795/pr

Model 2CE Signature 3-Way Speaker
8-in polypropylene woofer, 4½-in ferrofluid-cooled polypropylene-cone midrange, and 1-in ferrofluid-cooled metal-dome tweeter. 2 sets of biampable terminals. Midrange- and tweeter-level controls. Power handling 160 W; crossover points 600 Hz and 5 kHz; FR 28 Hz-29 kHz; sens 88 dB; imp 7 ohms. Various wood veneers and grille colors available. 5-yr warranty. 16 x 39¾ x 10¼ in; 64 lb $1,495/pr

VSM Signature 2-Way In-Wall Speaker
Coaxial acoustic-suspension design with 6½-in polypropylene woofer and 1-in metal-dome tweeter. 1 set terminal block inputs. Tweeter-level control. Includes wall-mount brackets. Power handling 200 W; crossover point 3.8 kHz; FR 60 Hz-22 kHz ±2 dB; sens 88 dB; imp 7 ohms. Various wood veneers and grille colors available. 5-yr warranty. Rectangular frame. Mounting area: 12⅛ x 23⅝ in. Mounting depth 5 in $1,395/pr

Model 2CE 3-Way Speaker
10-in active acoustic coupler, 8-in polypropylene woofer, 4½-in ferrofluid-cooled midrange, and 1-in ferrofluid-cooled metal-dome tweeter. Power handling 160 W; crossover points 600 Hz and 5 kHz; FR 28 Hz-29 kHz; sens 88 dB; imp 7 ohms. 16 x 39¾ x 10¼ in; 63 lb $1,295/pr

Model 2Wq Powered Subwoofer
Three slot-loaded 8-in long-fiber woofers; 300-W amp. Feed-forward error correction; 6-dB/oct crossover. Adjustable sens to match main speakers with efficiency ratings of 82-94 dB; user adjustable Q. Crossover point 80 Hz; FR 24-80 Hz. 18½ x 18 x 17 in; 91 lb $1,250

V2W Powered Subwoofer
Three 8-in woofers and one 12-in mass-loaded passive radiator; 300-W amp. Line-level inputs. Adjustable phase and sensitivity. FR 20-125 Hz; imp 2 ohms. Various wood veneers and grille colors available. 5-yr warranty. 18½ x 18 x 17 in; 91 lb $1,250

VSM-1 2-Way Speaker
Coaxial design with 6½ in polypropylene woofer and 1-in metal-dome tweeter. Designed for wall hanging. MDF enclosure. Power handling 100 W; crossover point 3.8 kHz; FR 60 Hz-21 kHz ±3 dB; sens 88 dB; imp 8 ohms. 12⅛ x 23⅝ x 5 in $895/pr

VCC Signature 2-Way Center-Channel Speaker
Coaxial design with 6½-in polypropylene woofer and 1-in metal-dome tweeter. Magnetic shielding; proprietary crossover. 1 set terminal-block inputs. Proximity switch to compensate for boundary effects. Power handling 200 W; crossover point 3.8 kHz; FR 150 Hz-22kHz ±2 dB without proximity; 300 Hz-22 kHz ±2 dB with proximity; sens 86 dB; imp 7 ohms. Various wood veneers and grille colors available. 5-yr warranty. 12⅛ x 9¼ x 10⅛ in; 28 lb $795

Model 1C 2-Way Speaker
Rear slot-loaded design with 8-in polypropylene woofer and 1-in ferrofluid-cooled metal-alloy-dome tweeter. Power handling 100 W; crossover point 2.8 kHz; FR 38 Hz-20 kHz; sens 90 dB; imp 6.8 ohms. 12 x 36 x 10 in; 50 lb $715/pr

VCC-1 2-Way Center-Channel Speaker
Coaxial design with 6½ in polypropylene woofer and 1-in critically damped metal-dome tweeter. 6-dB/oct crossover. Proximity switch to compensate for boundary effects. Power handling 200 W; crossover point 3.8 kHz; FR 150 Hz-21 kHz without proximity switch, 300 Hz-21 kHz with; sens 86 dB; imp 8 ohms. 12⅛ x 9¼ x 10⅛ in; 27 lb $495

VECTOR RESEARCH

The following have a black-vinyl finish with black-aluminum mesh grille.

VRP-475 Subwoofer/Satellite System
3-speaker system with subwoofer with 8-in driver; two satellites, each with 3½-in cone midrange and 2½-in dome tweeter. FR 28 Hz-20 kHz ±3 dB system; sens 90 dB; imp 6 ohms. 26 lb $1,099

VRP-1210 Powered Subwoofer
10-in woofer. Crossover point adjustable from 50-125 Hz; FR 25-125 Hz ±3 dB; sens 90 dB; imp 8 ohms. 18 lb $799

VRP-400 3-Way Satellite/ Center-Channel Speaker
Two 4-in woofers, one 3½-in midrange, and one 2½-in tweeter. Power handling 50 W; FR 55 Hz-20 kHz; sens 87 dB; imp 4 ohms. 22 lb $799

VELODYNE

DF-661 3-Way Speaker
6½-in woofer, 6½-in midrange, and 1-in tweeter. Power handling 300 W; crossover points 800 Hz and 5 kHz; FR 60 Hz-20 kHz ±3 dB; sens 88 dB; imp 6 ohms. Rosewood. 5-yr warranty. 8½ x 19 x 10½ in; 40 lb $2,500/pr

See the Glossary on page 243 to distinguish DSS from DSP or THX from THD.

FSR-18 Powered Subwoofer
18-in servo-controlled woofer; 1250-W servo amp. Class D amp construction. Line- and speaker-level inputs and outputs. Direct-in and phase control; auto on/off; low-pass filter adjustable from 40-120 Hz; high-pass filter selectable at 80 or 100 Hz; remote control. FR 15-120 Hz ±3 dB $2,399

HGS-12 Powered Subwoofer
Push-pull design with 12-in servo-controlled woofer; 1,250-W servo amp. Class D amp design. Line-level inputs and outputs. Low-pass filter adjustable from 40-120 Hz; high-pass filter at 80 kHz; phase control. FR 20-120 Hz ±3 dB. Gloss black $1,999
HGS-10. As above with 10-in driver $1,599

FSR-10 Powered Subwoofer
10-in servo-controlled woofer; 1,000-W servo amp. Adjustable low-pass filter from 40-120 Hz; 80/100 Hz high-pass filter. Line- and speaker-level inputs and outputs. FR 20-120 Hz ±3 dB $1,199
FSR-12. As above, 12-in servo-controlled woofer; 120-W servo amp. Remote control $1,199
FSR-15. As above, 15-in servo-controlled woofer; 250-W servo amp. Auto on/off. FR 16-120 Hz ±3 dB $1,699
FSX-12. As above, no remote control $1,199

VA 1250X Powered Subwoofer
Bass-reflex design with 12-in forward-firing fiber-cone driver with 15-in down-firing passive radiator and 2½-in voice-coil; 250-W amp. Clipping and over-excursion protection. Line-level inputs and outputs; 5-way binding post for speaker-level input and output. Signal-sensing auto-on; continuously adjustable phase between 0° and 180°; crossover bypass. Crossover point adjustable from 40-120 Hz; FR 22-120 Hz ±3 dB; imp 4 ohms. Black woodgrain vinyl. 18 x 18¾ x 18¾ in; 67 lb $999
CT-150. As above, slot-loaded forward-firing 15-in fiber-cone woofer with 2½-in voice-coil. Crossover point selectable at 80 and 100 Hz; FR 23-120 Hz ±3 dB. Black ash vinyl finish. 18½ x 21 x 20 in; 77 lb $799

VA-1012X II Powered Subwoofer
10-in woofer and 12-in passive radiator; 100-W amp. Gain-compressor circuit. Line- and speaker-level inputs and outputs. Phase control; auto on/off; low pass filter adjustable from 40-120. FR 28-120 Hz ±3 dB $699

LD-3C 2-Way Center-Channel Speaker
Acoustic-suspension design with two 6-in aluminum woofers and one 1-in aluminum tweeter. Magnetic shielding. Power handling 150 W; crossover point 3 kHz; FR 80 Hz-20 kHz ±3 dB; sens 88 dB; imp 4 ohms. Black woodgrain. 5-yr warranty. 21 x 8 x 10 in; 32 lb $649

CT-120 Powered Subwoofer
Three slot-load 12-in long-fiber woofers; 120-W amp. Line- and speaker-level inputs and outputs. Low-pass filter adjustable from 40-120 Hz. 80/100-Hz high-pass filter; continuously adjustable phase between 0° and 180°; auto on/off. FR 28-120 Hz ±3 dB $599
CT-100. As above, 10-in driver and 100-W amp. FR 30-120 Hz ±3 dB $499
CT-80. As above, 8-in driver; 80-W amp. Low-pass filter adjustable from 50-150 Hz; 80-Hz high-pass filter; FR 35-120 Hz ±3 dB $379

VA-8100X Powered Subwoofer
8-in woofer and 10-in passive radiator; 100-W amp. Gain-compressor circuit; low pass filter adjustable from 40-120 Hz. Line- and speaker-level inputs and outputs. Direct input-phase control; auto on-off. FR 35-120 Hz ±3 dB $599

LD-2 2-Way Speaker
Acoustic-suspension design with 6-in aluminum woofer and 1-in aluminum tweeter. Power handling 150 W; crossover point 3 kHz; FR 80 Hz-20 kHz ±3 dB; sens 88 dB; imp 6 ohms. Black woodgrain. 5-yr warranty. 8 x 14 x 8 in; 18 lb $399

VIDEOTON

DB 1588 Mini Max 2-Way Speaker
Infinite-baffle design; 5¼-in woofer and 1-in tweeter. Power handling 100 W; FR 50 Hz-20 kHz; sens 88 dB; imp 8 ohms. 7 x 11 x 7 in; 10 lb $300/pr

VINTEC ACOUSTICS

The following have a custom finish with a black-knit grille.

Vision Home Theater System
7-speaker system with 2 subwoofers, each with two 10-in drivers; 2 front speakers, each with two 6½-in cone midranges and two 1-in dome tweeters; 2 surround speakers, each with 6½-in cone midrange and 1-in dome tweeter; center-channel speaker with two 6½-in cone midranges and two 1-in dome tweeters. Crossover points 80 Hz and 2 kHz; FR 28 Hz-22 kHz ±2 dB system; sens 87 dB; imp 6 ohms. 389 lb $7,500

Virtual 3-Way Speaker
Omnidirectional design with four 6¾-in woofers, two 1-in dome midranges, and two ¾-in dome tweeters. Power handling 400 W; crossover points 2 Hz and 5 kHz; FR 32 Hz-25 kHz ±2 dB; sens 93 dB; imp 3 ohms. 60 x 24 x 8 in; 65 lb $3,250

Vanguard 3-Way Speaker
Dual-ported bass-reflex design with two 10-in woofers, one 6¾-in cone midrange, and one 1-in dome tweeter. Power handling 200 W; crossover points 80 Hz and 2 kHz; FR 28 Hz-22 kHz ±1 dB; sens 85 dB; imp 4 ohms. 50 x 12 x 16 in; 170 lb $3,000/pr

Vesuvius Subwoofer
Two 18-in drivers. Power handling 400 W; FR 10-200 Hz ±2 dB; sens 95 dB; imp 4 ohms. 45 x 24 x 24 in; 140 lb $2,800

Vista 2-Way Speaker
Bass-reflex design with two 6¾-in woofers and 1-in dome tweeter. Power handling 200 W; crossover point 2 kHz; FR 36 Hz-20 kHz ±2 dB; sens 90 dB; imp 4 ohms. 40 x 9 x 13 in; 130 lb $2,400/pr

Vintage 2-Way Speaker
Bass-reflex design with 8-in woofer and 1-in dome tweeter. Power handling 125 W; crossover point 1.8 kHz; FR 40 Hz-22 kHz ±1 dB; sens 87 dB; imp 6 ohms. 28 x 12 x 14 in; 112 lb $1,800/pr

Vibrato Compound Subwoofer
Two 10-in drivers. Power handling 200 W; FR 18-200 Hz ±3 dB; sens 85 dB; imp 4 ohms. 23 x 18 x 18 in; 69 lb $1,350

Valour 2-Way Speaker
Bass-reflex design with 6¾-in woofer and 1-in dome tweeter. Power handling 100 W; crossover point 2 kHz; FR 50 Hz-22 kHz ±1 dB; sens 85 dB; imp 8 ohms. 16 x 9 x 12 in; 54 lb $1,300/pr

VMPS

Super Tower III Special Ribbon Edition 4-Way Ribbon Speaker
Four 12-in woven carbon-fiber woofers, one 12-in downward-firing passive radiator, one 6-ft ribbon midrange, and one ribbon supertweeter. Power handling 800 W; FR 12 Hz-40 kHz; sens 95 dB; imp 6 ohms. Black-granite enclosure. 76 x 19 x 17 in; 500 lb $16,400/pr

VMPS FF-1 4-Way Speaker
Three 12-in woven-carbon-fiber woofers in focused-field-array, two 6-in planar midranges, two 1-in dome tweeters, and one 2-in ribbon supertweeter. Power handling 400 W; FR 14 Hz-40 kHz; sens 92 dB; imp 4 ohms. 68 x 14½ x 18 in; 350 lb $6,800/pr
VMPS FF-3. As above, 10-in woofers. Power handling 350 W; FR 24 Hz-40 kHz; sens 92 dB; imp 4 ohms. 63 x 13½ x 18 in; 300 lb $4,400/pr

Super Tower/R Special Edition 4-Way Speaker
Two 15-in and one 10-in woven-carbon woofers, two 5-in dynaribbon-planar midranges, two Focal 1-in dome tweeters, and one 2-in ribbon supertweeter. Power handling 350 W; FR 20 Hz-40 kHz; sens 90 dB; imp 4 ohms. 100 lb $3,400/pr
Kit version $2,800/pr

RM 2 3-Way Speaker
One 12-in woven carbon-fiber woofer, one 12-in passive radiator, one 14-in ribbon midrange, and two 1-in spiral ribbon tweeters. Power handling 200 W; FR 28 Hz-30 kHz; sens 90 dB; imp 4 ohms. 15 x 45 x 17 in; 120 lb $2,200/pr
Kit version $1,749/pr

Tower II Special Edition 4-Way Speaker
Three 12-in woven carbon-fiber woofers, one 5-in cone midrange, one 1-in Focal dome tweeter, and one 2-in ribbon supertweeter. Power handling 300 W; FR 22 Hz-30 kHz; sens 92 dB; imp 4 ohms. 15 x 45 x 16 in; 105 lb $1,876/pr
Kit version $1,476/pr

RM 1 3-Way Speaker
10-in woven carbon-fiber woofer, 10-in passive radiator, 7-in ribbon midrange, and 1-in spiral ribbon tweeter. Power handling 200 W; FR 36 Hz-30 kHz; sens 89 dB; imp 8 ohms. 12 x 39 x 15 in; 85 lb $1,480/pr
Kit version $1,199/pr

Larger Subwoofer
Dual 12- and 15-in woofers. Crossovers optional. Power handling 350 W; FR 17-600 Hz; sens 92 dB; imp 4 ohms. Oak or walnut veneer finish. 39 x 21 x 17 in; 150 lb $699
Kit version $579

Tower II 4-Way Speaker
Three 12-in polypropylene woofers, one 5-in polypropylene-cone midrange, one 1-in dome tweeter, and one 1-in piezo or ribbon supertweeter. Power handling 300 W; FR 22 Hz-30 kHz; sens 92 dB; imp 4 ohms. Light oak, dark oak, or satin black finish. 15 x 43 x 16 in; 105 lb $649
Kit version $499

Original Subwoofer
Dual 12- and 15-in woofers. Single- or dual-voice-coils. Crossovers optional. Power handling 200 W; FR 19-600 Hz; sens 89 dB; imp 8 ohms. Oak or walnut veneer finish. 27 x 21 x 17 in; 100 lb $499
Kit version $399

MiniTower IIa 3-Way Speaker
Two 10-in woven carbon-fiber woofers, one 5-in polypropylene-cone midrange, two 1-in dome tweeters, and one piezo or ribbon supertweeter. Light oak, dark oak, or satin black finish. 12 x 35 x 16 in; 80 lb $479
Kit version $379

QSO-808 3-Way Speaker
12-in woofer, 5-in polypropylene-cone midrange, and 1-in dome tweeter. Power handling 200 W; FR 34 Hz-18 kHz; sens 90 dB; imp 8 ohms. Light or dark oak finish. 26 x 15 x 11 in; 55 lb $399
Kit version $329

QSO-626 Speaker
Dual 6½-in drivers. Magnetic shielding. Power handling 150 W; FR 44 Hz-18 kHz +0, –4 dB; sens 90 dB; imp 4 ohms. Oak veneer finish. 22 x 9 x 13 in; 35 lb $349
Kit version $289

WATERWORKS ACOUSTICS

Sounding Outdoor Speaker
9-in piezo-piston transducer. Designed for underwater applications. Plastic-clad with no exposed

metal parts; isolation transformer; can withstand depths up to 25 ft. Includes wet niche and speaker wire. Power handling 50 W; FR 200 Hz-20 kHz ±3 dB; imp 8 ohms. 9 x 9 x 6 in; 16 lb $1,197

Soundpipe Two 2-Way Outdoor Speaker
Two 5-in polypropylene-cone woofers and one ¾-in tweeter mounted in pipe structure. Pipes and flanges for deck mounting optional. Power handling 100 W rms; FR 80 Hz-20 kHz ±3 dB; sens 90 dB; imp 4 ohms. Black, white, or green. 6 x 21½ x 8½ in $699/pr
Soundpipe One. As above, single woofer, ½-in tweeter. Power handling 50 W rms; sens 88 dB; imp 8 ohms. 6 x 13 x 8½ in $399/pr
Sconce mount. Provides finished look for wall-mounted Soundpipe One or Two $129/pr
Mounting Pipe. For Soundpipe One or Two. 4 x 48 in $119/pr
As above, 4 x 36 in $89/pr
4 x 24 in $59/pr
Animal grille. For Soundpipe One or Two ..$79/pr
Bracket. For mounting Soundpipe One on a flat surface $59/pr

Soundpipe Sub Outdoor Subwoofer
10-in dual-voice-coil polypropylene-cone driver. Power handling 100 W rms; FR 30-100 Hz ±3 dB; sens 90 dB; imp 4 ohms. Black or white. 16-in diameter x 18-in height $599

Soundrock 2-Way Outdoor Speaker
One 8-in dual-voice-coil woofer and two ½-in tweeters. Fiberglass housing looks like a rock. Mono or stereo configuration. Includes 50-ft four-conductor cable for underground wiring. Power handling 100 W rms; FR 40 Hz-20 kHz ±3 dB; sens 90 dB; imp 8 ohms/channel. Brown or gray variegated finish. 3-yr limited warranty. 21 x 16 x 26 in; 25 lb $599

Soundpipe Pump 2-Way Outdoor Speaker
5-in polypropylene-cone woofer and ½-in tweeter. Enclosure designed to minimize diffraction, vibration, and standing wave effects; auto overdrive protection. Power handling 50 W; FR 80 Hz-20 kHz ±3 dB; sens 87 dB; imp 8 ohms. Black, white, green, or custom finish. 3-yr warranty. 6 x 8½ x 14½ in; 6 lb $439/pr
Built-in 70-V transformer $40/pr

Soundpipe Omni 2-Way Outdoor Speaker
Omnidirectional design with one 4-in polypropylene-cone woofer and four ½-in tweeters. Removable base for wiring and installation. Power handling 50 W rms; FR 80 Hz-20 kHz ±3 dB; sens 86 dB; imp 8 ohms. Black or green; custom finishes available. 3-yr limited warranty. 8-in diameter x 8-in height; 7 lb $379

WAVEFORM

The following is available directly from the manufacturer. The price does not include freight.

Mach 17 3-Way Speaker
Two 12-in woofers in main cabinet; top-mounted pivoting midrange/treble egg-shaped module houses 6½-in midrange and 1-in silk-dome tweeter; top module rests on acoustic foam. Bryston active crossover with bass, midrange, and treble controls. Power handling 400 W max; FR 27 Hz-17 kHz ±1dB; sens 94 dB; imp 8 ohms. Oiled or lacquered walnut. 10-yr warranty. 23½ x 23½ x 43 in; 125 lb $6,995

WAVEFRONT ACOUSTICS

The following carry a 5-year warranty.

Continental Divide 4-Way Hybrid Ribbon Speaker
Subwoofer/midrange unit with one 15-in coated driver and four 8-in midranges in one enclosure; one wide-range ribbon driver and one 1-in dome tweeter in separate enclosure. 2-in cabinet walls with lead/sand core for vibration deadening for

Waterworks Acoustics Soundpipe Omni

sub/midrange unit; 24-dB/oct Linkwitz-Riley active crossovers for ribbon/tweeter unit. Triampable terminals. Full level- and crossover-controls of all driver ranges. Balanced parametric EQs, custom wood inlay or finish optional. Power handling 1000 W; crossover point variable from 80-200 Hz; FR 7 Hz-30 kHz ±3 dB; sens 90 dB; imp 8 ohms. Walnut/purple-heart trim. Sub/midrange: 22 x 83 x 20 in; 400 lb. Ribbon/tweeter: 22 x 83 x ¾ in; 60 lb $20,000

Aspen 3-Way Speaker
Bass-reflex design with two 9-in coated woofers, two 6-in polypropylene midranges, and one ¾-in textile-dome tweeter. 2 input terminals. 3 input terminals, controls for midrange and tweeter levels, and high-mass vibration-deadening compound optional. Power handling 500 W; crossover points 300 Hz and 3.5 kHz; FR 30 Hz-25 kHz ±3 dB; sens 95 dB; imp 4 ohms. Mahogany. 5-yr warranty. 12 x 46 x 18 in; 140 lb $3,995/pr
As above, rosewood $4,295/pr
As above, kit version $2,495/pr

Columbine 3-Way Speaker
Bass-reflex design with 10-in coated woofer, 5-in midrange, and 4-in ribbon tweeter. Input terminal. Two or three input terminals, midrange and tweeter controls, and vibration deadening all optional. Power handling 150 W; crossover points 600 Hz and 5 kHz; FR 32 Hz-25 kHz ±3 dB; sens 90 dB; imp 8 ohms. Black oak. 12 x 24 x 14 in; 60 lb $695/pr

WESTLAKE AUDIO

The following use a bass-reflex design, have a satin walnut veneer, and carry a 5-year warranty.

SM-1F 5-Way Speaker
Two 18-in woofers, one 12-in woofer, one 2-in compression midrange, one 1-in compression tweeter, and one ½-in supertweeter. Extensive electro-mechanical acoustical dampening. Large terminal strip; 2-, 4-, or 5-amp operation. Includes 2-channel, 2-way MRX-2 active crossover. Speaker muffs, 2-channel, 4-way HRX active crossover optional. Power handling 400 W; FR 20 Hz-20 kHz; sens 101 dB; imp 4 ohms. 40 x 51 x 33 in; 600 lb $78,997/pr

HR-1F 4-Way Speaker
Two 15-in woofers, one 10-in woofer, one 2-in compression midrange, and one 1-in compression tweeter. Extensive electromechanical acoustical dampening. Biampable. 2- or 4-amp operation. Includes 2-channel, 2-way MRX-2 active crossover. Speaker muffs, 2-channel, 4-way HRX active crossover optional. Power handling 300 W; FR 34 Hz-16 kHz; sens 99 dB; imp 4 ohms. 31 x 44 x 21 in; 365 lb $36,499/pr

BB10-SWP Subwoofer
18-in woofer. Extensive acoustical dampening; integrated passive crossover for single or blamp/triamp operation. Heavy-duty terminal strip. Includes cables and port plugs. Speaker muffs optional. Power handling 200 W; FR 26 Hz-2 kHz; sens 96.5 dB; imp 8 ohms. 30 x 28½ x 23½ in; 275 lb $13,899/pr

Tower Series
The following have extensive acoustical dampening and gold WBT connectors. Speaker muffs optional.

Tower SM-1 5-Way Speaker
Two 18-in woofers, one 12-in woofer, one 2-in compression midrange, one 1-in compression tweeter, and one ½-in supertweeter. 2-, 4-, or 5-amp capability. Includes 2-channel, 2-way MRX-2 active crossover. Power handling 400 W; FR 20 Hz-20 kHz; sens 101 dB; imp 4 ohms. 75 x 40 x 29½ in; 975 lb $98,661/pr

Tower-HR7 4-Way Speaker
Two 12-in woofers, one 10-in woofer, one 1-in compression tweeter, and one ½-in supertweeter 2- or 4-amp capability. Includes 2-channel, 2-way MRX-2 active crossover. High-gloss finish optional. Power handling 200 W; FR 32 Hz-20 kHz; sens 96 dB; imp 4 ohms. 60 x 27 x 25 in; 385 lb $38,017/pr

Tower-12 2-Way Speaker
Two 12-in woofers and one 1-in compression tweeter. Integrated passive crossover for 1- or 2-amp operation. Biampable terminals. 2-channel, 2-way MRX-2 active crossover optional. Power handling 180 W; FR 38 Hz-18 kHz; sens 97 dB; imp 4 ohms. 55⅜ x 27½ x 23½ in; 350 lb $22,475/pr

Reference Series
The following have extensive acoustical dampening. Speaker muffs optional.

SM-1VF 5-Way Speaker
Two 18-in woofers, one 12-in woofer, one 2-in compression midrange, one 1-in compression tweeter, and one ½-in supertweeter. 2-, 4- or 5-amp capability. Includes 2-channel, 2-way MRX-2 active crossover. 2-channel, 4-way HRX active crossover optional. Power handling 400 W; FR 20 Hz-20 kHz; sens 101 dB; imp 4 ohms. 57 x 41¾ x 28 in; 875 lb $81,954/pr

HR-1VF 4-Way Speaker
Two 15-in woofers, one 10-in woofer, one 2-in compression midrange, and one 1-in compression tweeter. 2- or 4-amp capability. Includes 2-channel, 2-way MRX-2 active crossover. 2-channel, 4-way HRX active crossover optional. Power handling 300 W; FR 34 Hz-16 kHz; sens 99 dB; imp 4 ohms. 48 x 34 x 21 in; 375 lb . . .$38,858/pr

TM-3VF 3-Way Speaker
Two 15-in woofers, one 2-in compression midrange, and one 1-in compression tweeter. Integrated passive crossover for 1- or 2-amp operation. Biampable terminals. 2-channel, 2-way MRX-2 active crossover optional. Power handling 300 W; FR 34 Hz-16 kHz; sens 99 dB; imp 4 ohms. 44 x 34 x 21 in; 370 lb $33,109/pr

BBSM-VNF Series
The following have extensive acoustical dampening, an integrated passive crossover for 1- or 2-amp operation, a heavy-duty terminal strip, and biampable terminals. Speaker muffs optional.

BBSM-15VNF 3-Way Speaker
Two 15-in woofers, one 10-in midrange, and one 1-in compression tweeter. High-performance woofers optional. Power handling 300 W; FR 36 Hz-18 kHz; sens 99 dB; imp 4 ohms. 59⅜ x 21 x 26 in; 520 lb $23,997/pr

BBSM-12VNF 3-Way Speaker
Two 12-in woofers, one 6½-in midrange, and one 1¼-in dome tweeter. Power handling 180 W; FR 38 Hz-18 kHz; sens 96 dB; imp 4 ohms. 47½ x 17 x 21½ in; 230 lb $11,275/pr

BBSM-10VNF 3-Way Speaker
Two 10-in woofers, one 6½-in midrange, and one 1¼-in dome tweeter. Power handling 120 W; FR 40 Hz-18 kHz; sens 95 dB; imp 4 ohms. 46 x 14½ x 19½ in; 165 lb $8,299/pr

BBSM-6VNF 3-Way Speaker
Two 6½-in woofers, one 4-in midrange, and one 1-in dome tweeter. Power handling 80 W; FR 44 Hz-18 kHz; sens 91 dB; imp 4 ohms. 41⅜ x 9¾ x 14 in; 85 lb $6,149/pr

BBSM-4VNF 2-Way Speaker
Two 4-in woofers and one ¾-in dome tweeter. Includes pedestal stands. Power handling 50 W; FR 60 Hz-20 kHz; sens 89 dB; imp 4 ohms. 39⅜ x 6¾ x 11 in; 65 lb $4,250/pr

BBSM-F Series
The following have extensive acoustical dampening, an integrated passive crossover for 1- or 2-amp operation, a heavy-duty terminal strip, and bi-ampable terminals. Speakers muffs optional.

BBSM-15F 3-Way Speaker
Two 15-in woofers, one 10-in midrange, and one 1-in compression tweeter. High performance woofers optional. Power handling 300 W; FR 50 Hz-18 kHz; sens 99 dB; imp 4 ohms. 27¼ x 41 x 25 in; 465 lb $21,997/pr

BBSM-12F 3-Way Speaker
Two 12-in woofers, one 6½-in midrange, and one 1¼-in dome tweeter. Power handling 180 W; FR 50 Hz-18 kHz; sens 97 dB; imp 4 ohms. 19 x 34 x 23 in; 220 lb $10,027/pr

BBSM-10F 3-Way Speaker
Two 10-in woofers, one 6½-in midrange, and one 1¼-in dome tweeter. Matching subwoofer system optional. Power handling 120 W; FR 50 Hz-18 kHz; sens 95 dB; imp 4 ohms. 16 x 30 x 21½ in; 150 lb $7,125/pr

BBSM-8F 3-Way Speaker
Two 8-in polypropylene woofers, one 4-in midrange, and one 1-in dome tweeter. Power handling 100 W; FR 65 Hz-18 kHz; sens 93 dB; imp 4 ohms. 13 x 26 x 16½ in; 105 lb $6,139/pr

BBSM-6F 3-Way Minispeaker
Two 6½-in polypropylene woofers, one 4-in midrange, and one 1-in dome tweeter. Power handling 60 W; FR 60 Hz-20 kHz; sens 91 dB; imp 4 ohms. 10½ x 22 x 13 in; 67 lb $4,999/pr

BBSM-4F 2-Way Minispeaker
Two 4-in polypropylene woofers and ¾-in dome tweeter. Power handling 50 W; FR 65 Hz-20 kHz; sens 89 dB; impedance 4 ohms. 8 x 15 x 10 in; 31 lb $3,250/pr

LC-Series
The following have extensive acoustical dampening, dual-banana 5-way binding posts, and a satin walnut veneer. Speakers muffs optional.

Lc8.1SW Subwoofer
Dual 10-in polypropylene woofers. Integrated passive crossover for single or biamp operation. Includes cables and port plugs. Power handling 160 W; FR 36 Hz-18 kHz; sens 90.5 dB; imp 5 ohms. 28⅛ x 13⅞ x 14¾ in; 105 lb $5,999/pr

Lc3w12 3-Way Bookshelf Speaker
12-in polypropylene woofer, 6½-in midrange, and 1-in tweeter. Integrated passive crossover for single or bi-amp operation. Power handling 100 W; FR 38 Hz-20 kHz; sens 88 dB; imp 5 ohms. 15 x 25 x 15½ in; 80 lb $4,699/pr

Lc3w10. As above, 10-in polypropylene woofer, 5-in midrange. Power handling 80 W; FR 42 Hz-20 kHz. 12¼ x 21½ x 13⅜ in; 69 lb $3,838/pr

Lc8.1 2-Way Bookshelf Speaker
8-in polypropylene woofer and 1-in dome tweeter. Aligned signal path; magnetic shielding available. Power handling 85 W; FR 55 Hz-18 kHz; sens 90.5 dB; imp 7 ohms. 18 x 10 x 11⅝ in; 31 lb ...$2,175/pr

Lc265.1 2-Way Center-Channel Speaker
Two 6½-in woofers, one 5-in midrange with coaxially mounted 1-in tweeter. Integrated passive crossover for single or bi-amp operation. Power handling 95 W; FR 48 Hz-18 kHz; sens 91 dB; imp 5 ohms. 8½ x 22 x 11 in; 42 lb $1,875

Lc6.75 2-Way Bookshelf Speaker
Bass-reflex design with 6½-in polypropylene woofer and ¾-in dome tweeter. Aligned signal path; magenetic shielding available. Power handling 80 W; FR 60 Hz-18 kHz; sens 87.5 dB; imp 7 ohms. 16 x 8 x 10⅜ in; 22 lb $1,659/pr

WHARFEDALE

Heritage Signature 4-Way Speaker
Rear-ported bass-reflex design with two 8-in long-throw woofers, one 8-in woofer with 2-in voice coil, 3-in silk-dome midrange, and 1-in ferrofluid-cooled/damped silk-dome tweeter. Fire-retardant acrylic wadding. Biampable binding posts. Power handling 600 W; FR 32 Hz-20 kHz; sens 91 dB; imp 8 ohms. Light oak, cherry wood, or rosewood veneer. 9 x 40 x 16 in $5,000/pr

Emerald 97 2-Way Speaker
Rear-ported bass-reflex design with 7-in long-throw mineral-loaded polypropylene-cone woofer with high-temperature 1-in voice coils and 1-in ferrofluid-cooled-and-damped silk-dome tweeter. Fire-retardant acrylic wadding. Biampable binding posts. Power handling 150 W; FR 48 Hz-20 kHz; sens 89 dB; imp 8 ohms. Light oak, cherry wood, or rosewood veneer. 9 x 36 x 11 in $2,000/pr
Emerald 95. As above, power handling 100 W. 9 x 34 x 11 in $1,700/pr
Emerald 93. As Emerald 95, 9 x 19 x 11 .$1,300/pr

Modus Monitor MFM5 3-Way Speaker
Bass-reflex design with 7-in long-throw woofer and 7-in midrange, both with mineral-loaded polypropylene cone and high-temperature voice coils, and 1-in doped silk-dome tweeter with ferrofluid cooling. Mineral-loaded polypropylene baffle for improved dispersion and frequency response. Biampable 3-way binding posts. Power handling 125 W; FR 38 Hz-20 kHz; sens 90 dB; imp 8 ohms. Black ash or rosewood. 8¾ x 33⅜ x 11⅞ in; 25 lb $1,300/pr

Modus Music Eight 3-Way Speaker
Rear-ported bass-reflex design with 7-in long-throw woofer and midrange, both with mineral-loaded polypropylene cones and high-temperature voice coils, and ¾-in damped silk tweeter with ferrofluid cooling. Fire-retardant acrylic wadding. Biampable 3-way binding posts. Power handling 125 W; FR 38 Hz-20 kHz; sens 90 dB; imp 8 ohms. Black or rosewood. 8¾ x 36¾ x 11⅝ in; 25 lb $1,250/pr

Valdus 500 3-Way Speaker
Bass-reflex design with two 8-in long-throw woofers, one 8-in pulp-cone midrange, and one 2-in ferrofluid-cooled dome tweeter. 6-dB/oct networks; fire-retardant acrylic wadding; ½-in particleboard construction; tweeter fuse. 3-way binding posts. Power handling 200 W; FR 38 Hz-20 kHz; sens 95 dB; imp 8 ohms. Black ash finish. 10 x 43¼ x 11⅞ in; 33 lb $1,000/pr
Valdus 400. As above, single woofer; 6-dB/oct networks. Power handling 150 W; FR 38 Hz-20 kHz; sens 94 dB; imp 8 ohms. 10 x 32 x 10½ in ...$750/pr

SW-15 Powered Subwoofer
Acoustic-suspension design with 15-in driver; 150-W amp. Line- and speaker-level inputs. Auto on/off switch. FR 20-93 Hz; sens 112 dB. Black with removable black grilles $900

Modus Four 2-Way Speaker
Rear-ported bass-reflex design with 7-in long-throw woofer with mineral-loaded polypropylene cone and high-temperature voice coil and ¾-in damped silk-tweeter with ferrofluid cooling. Rotating tweeter assembly; fire-retardant acrylic wadding. Biampable 3-way binding posts. Power handling 100 W; FR 45 Hz-20 kHz; sens 89 dB; imp 8 ohms. Black or rosewood. 8¾ x 22⅝ x 11⅝ in; 21 lb $750/pr
Modus Two. As above, bookshelf version. FR 48 Hz-20 kHz. 8¾ x 16 x 11⅝ in; 13 lb $550/pr
Modus Monitor MFM1. As above, 1-in doped silk-dome tweeter with ferrofluid cooling. No rotating tweeter assembly or fire-retardant acrylic wadding. Front baffle made of mineral-loaded polypropylene for improved dispersion and frequency response. 8¾ x 19½ x 11⅝ in; 21 lb $700/pr

Modus Powered Sub-Bass Powered Subwoofer
Two 7-in long-throw woofers with 1-in high-temperature voice coils; amp rated at 150 W. Fire-retardant acrylic wadding. Binding posts for speaker-level input; line-level RCA inputs. Master volume control; crossover frequency control; polarity switch; mains power switch. FR 30-150 Hz. Black ash finish. 8¾ x 16⅝ x 22⅝ in $700

SW-12 Powered Subwoofer
Acoustic-suspension design with 12-in driver; 150-W amp. Line- and speaker-level inputs. Auto on/off switch. FR 21-105 Hz; sens 112 dB. Black with removable black grilles $650

Diamond 7.3 2-Way Speaker
Rear-ported bass-reflex design with 5¼-in mineral-loaded polypropylene-cone woofer and 1-in silk soft-dome tweeter. 1st-order crossover network; mineral-loaded polypropylene baffle and back plate interconnected for cabinet rigidity. 3-way binding posts. Includes plinth. Power handling 100 W; FR 38 Hz-20 kHz; sens 87 dB; imp 8 ohms. Black ash finish. 28 x 11⅞ x 9 in; 11 lb $600/pr
Diamond 7.2. As above, no plinth. FR 44 Hz-20 kHz. 7⅝ x 11⅞ x 9 in; 7 lb $350/pr

Diamond Anniversary 2-Way Speaker
Rear-ported bass-reflex design with 5¼-in long-throw mineral-loaded polypropylene-cone woofer with high-temperature 1-in voice coil and 1-in ferrofluid-cooled-and-damped silk-dome tweeter. Fire-retardant acrylic wadding. Biampable binding posts. Power handling 100 W; FR 44 Hz-20 kHz; sens 89 dB; imp 8 ohms. Light oak, cherry wood, or rosewood veneer. 7½ x 12 x 9 in; 7 lb $599/pr

Valdus 300 2-Way Bookshelf Speaker
Bass-reflex design with 8-in long-throw woofer and 1-in ferrofluid-cooled dome tweeter. Fire-retardant acrylic wadding; ½-in-thick particleboard construction; tweeter fuse; 6-dB/oct network. Spring-clip terminals. Power handling 100 W; FR 45 Hz-20 kHz; sens 92 dB; imp 8 ohms. Black ash finish. 10 x 18⅛ x 9 in; 21 lb $450/pr
Valdus 200. As above, 7-in woofer. FR 48 Hz-20 kHz; sens 91 dB; imp 8 ohms. 8⅛ x 15¼ x 9 in; 17 lb $350/pr
Valdus 100. As above, 5-in woofer. FR 58 Hz-20 kHz; sens 90 dB; imp 8 ohms. 6¾ x 10¾ x 7¼ in; 13 lb $250/pr

SW-10 Powered Subwoofer
Acoustic-suspension design with 10-in driver; 75-W amp. Line- and speaker-level inputs. FR 27-100 Hz; sens 110 dB. Black with removable black grilles $400

Modus Sub-Bass Subwoofer
Tuned bandpass design with two 6¾-in long-throw woofers. Front baffle molded in damped mineral-loaded polypropylene; fire-retardant acrylic wadding. Power handling 100 W/driver; FR 35-120 Hz;

sens 88 dB; imp 8 ohms. Black ash vinyl finish. 8⅞ x 19⅝ x 15¼ in $399

Modus Micro 2-Way Bookshelf Speaker
Rear-ported bass-reflex design with 4-in woofer and ½-in silk-dome tweeter. Rotating tweeter housing; time-aligned drivers; magnetic shielding. Stand and wall-mount bracket optional. Power handling 75 W; FR 100 Hz-22 kHz; sens 86 dB; imp 8 ohms. White. 5¾ x 9¼ x 4⅞ in $325/pr
Black finish $299/pr

Diamond 7.1 2-Way Speaker
Rear-ported bass-reflex design with 5¼-in laminated-cone woofer with long-throw voice coil and 1-in polycarbonate flared-dome tweeter. 1st-order crossover networks; mineral-loaded polypropylene baffle and back plate interconnected for cabinet rigidity. 3-way binding posts. Power handling 100 W; FR 48 Hz-20 kHz; sens 87 dB; imp 8 ohms. Black ash finish. 7½ x 11⅝ x 7 in; 7 lb $250/pr

Modus Cube Bookshelf Speaker
Rear-ported bass-reflex design with 4-in pulp-cone driver. Magnetic shielding. Power handling 75 W; FR 100 Hz-15 kHz; sens 87 dB; imp 8 ohms. White. 5¾ x 6⅝ x 4⅞ in $225/pr
Black finish $199/pr

WHITEHALL AUDIO PRODUCTS

The following use a bass-reflex design.

Model 20 3-Way Speaker
12-in woofer, 4-in midrange, and 2-in tweeter. Power handling 150 W max; crossover points 800 Hz and 6 kHz; FR 30 Hz-23 kHz; imp 8 ohms. 23 x 14 x 13 in; 35 lb $400/pr

Model 15 2-Way Speaker
10-in woofer and 2-in tweeter. Crossover 3 kHz; FR 40 Hz-20 kHz. 12 x 21 x 10½ in $280/pr

Model 10 2-Way Speaker
8-in woofer and 2-in tweeter. Crossover point 3.5 kHz; FR 60 Hz-20 kHz. 12 x 17½ x 8 in ...$200/pr

Model 5W 2-Way Speaker
5-in woofer and 1½-in tweeter. Crossover point 6 kHz; FR 80 Hz-20 kHz. 7 x 11 x 8 in $180/pr

WILSON AUDIO

WAMM Subwoofer/Satellite System
4-speaker system with two subwoofer towers, each with one 15-in driver; two satellite tower arrays, each with two KEF B-139 reaction-molded polymer flat-piston woofers, two M-6 midranges, and one electrostatic tweeter. Fine tuning in time and frequency domains; patented time-domain adjustment for midrange and tweeter through pulse-alignment calibration mechanism made from machine-cut aerospace alloys; midrange modules and baffle machined from solid ceramic and mineral-filled methacrylate polymer; subwoofer with 24-dB/oct Butterworth active crossover and biamplification. Includes parametric EQ and satellite-array stands. Power handling 1,400 W; FR 17 Hz-30 kHz +0, –4 dB system; sens 99 dB; imp 16 ohms subwoofer, 4 ohms satellite. Choice of over 100 wood veneers or hand-rubbed custom-matched painted finish; price varies with type of finish. 5-yr parts-and-labor warranty. Subwoofer: 24 x 78 x 15 in; satellite: 18¾ x 78 x 31¾ in. 1,500 lb total $156,000/pr

X-1/Grand Slamm 5-Way Speaker
Built-in 15-in subwoofer, one 12-in woofer, two 6½-in midranges, one 1-in inverted-titanium-dome tweeter, and two 1-in titanium supertweeters. Power handling 1600 W; FR 17.5 Hz-27 kHz +0, –4 dB; sens 95 dB; imp 8 ohms. 16 x 72 x 25 in; 1,400 lb $75,900/pr

MAXX 3-Way Speaker
Bass-reflex design with one 13-in woofer, one 11-in woofer, two 6½-in midranges, and one 1-in titanium-dome tweeter. Power handling 1400 W; crossover points 150 Hz and 1.5 kHz; FR 20 Hz-20 kHz; sens 92 dB; imp 4 ohms. Paintable. 5-yr warranty. 16¼ x 61 x 23¼ in; 400 lb $38,900/pr

XS Subwoofer
Dual-ported bass-reflex design with two 18-in woofers. Recommended minimum amp power of 100 W/ch. Wood finish and automotive-quality paint finish optional. Power handling 2,000 W; FR 15-50 Hz ±1.5 dB; sens 95 dB; imp 4 ohms. Black laminate finish. 5-yr limited warranty. 26 x 84 x 28 in; 700 lb $16,950

WITT Series 2 3-Way Speaker
Bass-reflex design with 13-in woofer, 6½-in midrange, and 1-in inverted titanium-dome tweeter. Power handling 600 W; crossover points 125 Hz and 1.5 kHz; FR 28 Hz-22 kHz ±1.5 dB; sens 90 dB; imp 4 ohms. Paintable. 5-yr warranty. 17 x 43 x 16 in; 230 lb $11,890/pr

WHOW-U Subwoofer
15-in woofer. Designed for use as coffee table. Active crossover; frequency contour network; remote power supply; solid synthetic-granite cabinet. Power handling 800 W; crossover point 55 Hz; FR 23-55 Hz; sens 94 dB; imp 8 ohms. Wilsongloss colors; other finishes including custom color matching available at extra cost. 39½ x 16 x 29½ in; 350 lb $10,945

Puppy 5.1 Subwoofer
Bass-reflex design with two 8-in polymer-based drivers. Designed for use with Watt 5 speakers. Asymmetrically cross-partitioned enclosure. Supplied crossover does not require additional amp or cabling if used with Watt 5 speakers. Includes adjustable floor spikes. Power handling 800 W; FR 28-125 Hz +0, –4 dB passive mode; sens 93 dB; imp 4 ohms. Medium oak, American walnut, Bolivian rosewood, zebrawood, or black-anodized-metal finish; other automotive-grade and wood side-panel finishes available at extra cost. 5-yr limited transferable parts-and-labor warranty. 11¼ x 24 x 16 in; 190 lb $8,660/pr

Watt 5 2-Way Bookshelf Speaker
Ported QB3 design with 7-in woofer and 1-in titanium-dome tweeter. Designed for use with the Puppy 5.1. Enclosure constructed of mineral- and ceramic-filled methacrylate polymer; quasi 3rd-order Butterworth bass response; crossover with multiple slopes; time-coherent wiring. Power handling 800 W; FR 55 Hz-21 kHz ±3 dB; sens 93 dB; imp 4 ohms. Medium oak, American walnut, Bolivian rosewood, zebrawood, or black-anodized metal finish; other automotive-grade and wood side-panel finishes other finishes available at extra cost. 5-yr limited transferable parts-and-labor warranty. 12 x 14 x 16½ in; 140 lb $8,610/pr

CUB 2-Way Speaker
Bass-reflex design with two 6½-in woofers and 1-in tweeter. Power handling 25-400 W; FR 50 Hz-22 kHz ±1.5 dB; sens 94 dB; imp 4 ohms. Black laminate; other finishes available at extra cost. 5-yr limited warranty. 10 x 19 x 22 in; 80 lb $5,900/pr

WILSON BENESCH

Act 1 3-Way Speaker
Bass-reflex design with 6½-in carbon-fiber woofer, 6½-in carbon-fiber midrange, and 1-in woven-silk dome tweeter. Carbon-fiber cabinet to eliminate vibration; double-reflex cabinet with 5 separate chambers; minimum phase 6-dB/oct crossovers; silver hook-up wire. Three pair copper 3-way binding posts. Includes stainless-steel spikes. Power handling 200 W; crossover points 400 Hz and 3 kHz; FR 40 Hz-20 kHz ±2.5 dB; sens 89 dB; imp 6 ohms. Solid cherrywood with black grille. 9 x 41½ x 14½ in; 75 lb $10,500/pr
Actor. As above, no carbon-fiber cabinet, silver hook-up wire, or stainless-steel spikes. Double-reflex cabinet with 5 separate chambers; minimum phase 6-dB/oct crossovers. Two pair copper 3-way binding posts $6,500/pr

Orator 2-Way Speaker
Bass-reflex design with 7-in compressed-polymer woofer and ¾-in soft-dome tweeter. Power handling 100 W; FR 35 Hz-20 kHz; sens 89 dB; imp 8 ohms. 9 x 38 x 14 in; 45 lb $4,995/pr

WOLCOTT AUDIO

Omnisphere MDH-2B 2-Way Speaker
Bass-reflex design with four 6½-in woofers and one 1⅛-in silk-dome tweeter. Tweeter-overload protection. 5-way binding posts. Includes casters. Power handling 250 W; crossover point 1.8 kHz; FR 30 Hz-18 kHz ±3 dB; sens 90 dB; imp 6 ohms. High-gloss black lacquer. 21 x 48 x 21 in; 110 lb $6,250/pr
Omnisphere MDH-2D. As above, 1¾-in aluminum-dome tweeter. Designed for studio use. Satin-black finish $5,295/pr

WRIGHT

Grand Master Subwoofer/Satellite System
4-speaker system with two subwoofers, each with two 12-in drivers; two satellites, each with two 6½-in Kevlar-composite drivers in individual transmission-line sections and one titanium-oxide dome tweeter. Biampable terminals. Includes adjustable floor spikes. Power handling 200 W; crossover point adjustable from 150 Hz-3.6 Hz; FR 20 Hz-23 kHz ±2 dB; sens 92 dB; imp 4 ohms. Front facade with dark-red oak finish, black chiffon curtain, and an inset brass and beveled-glass design. 49 x 83 x 22 in; 860 lb $11,500

Aristocrat 2-Way Speaker
Transmission-line design with 6½-in Kevlar-composite woofer and titanium-oxide dome tweeter. Power handling 100 W; crossover point 3.6 kHz; FR 48 Hz-23 kHz ±2 dB; sens 90 dB; imp 8 ohms. Mirrored front, sides, and top. 11 x 45 x 11 in; 55 lb $1,150/pr

Model 20 2-Way Speaker
Transmission-line design with 6½-in polypropylene woofer and Dynaudio tweeter. Power handling 60 W; crossover point 3 kHz; FR 55 Hz-18 kHz ±2 dB; imp 6 ohms. Red oak top and bottom. 10 x 46 x 10 in; 52 lb $750/pr

XANTECH

The following use an infinite-baffle design with a 6½-in polypropylene woofer. They have spring-loaded clips, are white with rectangular frames, have a mounting area of 8⅞ x 11⅞ in, and a mounting depth of 2⅛ in. They have a bezel/grille assembly separate from the speaker/baffle assembly to facilitate installation and servicing. Cutouts on the baffles accommodate Xantech Model 480 Dinky Link infrared receiver. The F-63 Bezel/Grille and the F-61 Rough-In Kit are each available for an additional $50.

S66 2-Way In-Wall Speaker
1-in ferrofluid-cooled soft-dome tweeter. Power handling 150 W; crossover point 3.5 kHz; FR 55 Hz-18 kHz ±2 dB; sens 89 dB; imp 8 ohms $325/pr

S64 2-Way In-Wall Speaker
¾-in ferrofluid-cooled hard-dome tweeter. Power handling 100 W; crossover point 5 kHz; FR 55 Hz-20 kHz ±3 dB; sens 91 dB; imp 8 ohms ...$250/pr

Prices given are "list."
Dealer prices may vary.

Stereo Review

PRESENTS

THE BASIC REPERTORY ON COMPACT DISC

A CRITICAL DISCOGRAPHY

The award-winning music critic Richard Freed selects the best current CDs of the most often performed music in the classical orchestral repertory — hundreds of recommended recordings of symphonic works ranging from Bach to Wagner!

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Speakers

S62 2-Way In-Wall Speaker
6½-in polypropylene woofer and 2-in cone tweeter. Power handling 70 W; crossover point 6.5 kHz; FR 60 Hz-16 kHz ±4 dB; sens 87 dB; imp 8 ohms $150/pr

YAMAHA

YST refers to Yamaha's proprietary Active Servo Technology bass-enhancing circuit.

CL-S100 Subwoofer/Satellite System
6-piece system with powered subwoofer with 10-in driver and 100-W YST amp; 5 satellite speakers, each with 4-in high polymer-coated woofer and ½-in dome tweeter. Acoustic-suspension design with magnetic shielding for satellites. Subwoofer line- and speaker-level inputs; speaker-level output. Subwoofer auto on/off; volume control; high-cut control. Includes 100-ft speaker wire. Power handling 120 W sat; crossover point 4 kHz sat; FR 25-200 Hz sub, 60 Hz-22 kHz ±3 dB sat; sens 88 dB sat; imp 6 ohms sat. Black matte. Satellite: 6 x 9 x 4¼ in; 4 lb. Subwoofer: 13⅛ x 17⅜ x 14½ in; 44½ lb $699

YST-SW150 Powered Subwoofer
Two 7⅞-in spruce-cone woofers; amp rated at 120 W. 24-dB/oct high-cut filter variable from 40-140 Hz; magnetic shielding. Phase-reverse switch. FR 20-160 Hz. 10 x 24½ x 16⅝ in; 40 lb $399
YST-SW80. As above with one driver; amp rated at 85 W. Filter variable from 50-150 Hz. FR 23 Hz-170 kHz. 10 x 19⅛ x 14½ in; 28 lb $299

YST-SW300 Powered Subwoofer
Bass-reflex design with 12-in paper-cone woofer; 185-W amp. Designed for Dolby Digital systems. Discrete-circuitry power amp; magnetic shielding. Line- and speaker-level inputs; speaker-level output. Auto on/off; volume control; high-cut control; phase-control switch; bass action selector system. FR 18-160 Hz. Black matte. 15¾ x 19¾ x 17⅛ in; 58 lb $399

YST-SW40 Powered Subwoofer
Bass-reflex design; 8-in paper-cone woofer; 50-W amp. Magnetic shielding. Speaker- and line-level inputs; speaker-level output. Auto on/off; volume control; high-cut control. FR 30-300 Hz –10 dB; imp 5 ohms. Black matte. 10 x 13¾ x 12⅝ in; 18 lb . . .$229

NS-A1237 3-Way Speaker
Acoustic-suspension design with 12-in high-polymer-coated woofer, 4-in paper midrange, and 1-in urethane foam-laminated cloth-dome neodymium-magnet tweeter. Magnetic shielding. Includes 8-ft 22-gauge speaker wire. Power handling 200 W; crossover points 3 kHz and 13.5 kHz; FR 35 Hz-20 kHz ±3.5 dB; sens 92 dB; imp 8 ohms. Micro-pebble black. 14¾ x 39⅜ x 13½ in; 44 lb $199
NS-A2837. As above, two 8-in high-polymer-coated woofers. Power handling 160 W; crossover points 4.2 kHz and 9.1 kHz; FR 50 Hz-20 kHz ±3.5 dB. 10½ x 41 x 14 in; 37 lb $199

NS-A637 3-Way Bookshelf Speaker
Acoustic-suspension design with 8-in high-polymer-coated woofer, 4-in midrange, and ¾-in ferrofluid-cooled dome tweeter. Magnetic shielding. Power handling 140 W max; FR 90 Hz-20 kHz ±3.5 dB; sens 91 dB; imp 8 ohms. Micro-pebble black finish. 10½ x 16¼ x 12½ in $150/pr

NS-A837 3-Way Bookshelf Speaker
Acoustic-suspension design with 12-in high-polymer-coated woofer, 4-in midrange, and 1-in urethane foam-laminated cloth-dome neodymium-magnet tweeter. Magnetic shielding. Power handling 200 W max; FR 40 Hz-20 kHz ±3.5 dB; sens 92 dB; imp 8 ohms. Micro-pebble black finish. 14¾ x 22⅝ x 14½ in $150

NS-A327 2-Way Satellite Speaker
Acoustic-suspension design with 3½-in paper woofer and ¾-in Mylar-dome tweeter. Magnetic shielding. Power handling 120 W max; FR 150 Hz-22 kHz ±3 dB; sens 87 dB; imp 6 ohms. Black. 7 x 4¾ x 3⅞ in $149/pr

NS-AC142 2-Way Center-Channel Speaker
Acoustic-suspension design with two 5¼-in polypropylene woofers and 1-in urethane foam-laminate neodymium-magnet tweeter. Magnetic shielding. Tweeter-level control. Power handling 160 W; FR 60 Hz-20 kHz ±3.5 dB; sens 90 dB; imp 8 ohms. Micro-pebble black. 19 x 6⅜ x 7½ in; 12 lb $149/pr

NS-A527 2-Way Bookshelf Speaker
Acoustic-suspension design with 6-in high-polymer-coated woofer and ¾-in ferrofluid-cooled dome tweeter. Power handling 60 W max; FR 95 Hz-20 kHz ±3.5 dB; sens 90 dB; imp 8 ohms. Micro-pebble finish. 8 x 12 x 8½ in $125/pr

NS-E103 Surround Speaker
Bass-reflex design with magnetic shielding. Power handling 25 W; FR 70 Hz-20 kHz; imp 6 ohms. White. 7 x 8¾ x 4 in; 3 lb $118/pr

Home Theater Speakers

NS-AP150 Center/Surround System
3-speaker system with center speaker and two surround speakers, each with 5-in woofer and ¾-in ferrofluid-cooled dome tweeter. Magnetic shielding. Power handling 100 W max; FR 80 Hz-20 kHz ±3.5 dB center, 90 Hz-20 kHz ±3.5 dB surround; sens 90 dB center and surround; imp 8 ohms center and surround. Micro-pebble black finish $179

NS-C150 2-Way Center-Channel Speaker
Two 4-in polypropylene woofers and one 1-in dome tweeter. Angled front baffle for placement above or below video screen; magnetic shielding. Power handling 220 W max; FR 60 Hz-20 kHz; sens 90 dB. Matte black. 23⅝ x 5⅞ x 7⅛ in; 13 lb $179

NS-AP101 Center/Surround System
3-speaker system with center speaker with two 5-in woofers and one 2-in cone tweeter; two surround speakers, each with 5-in driver. Power handling 80 W max; FR 70 Hz-20 kHz center, 95 Hz-13 kHz surround; sens 90 dB center, 89 dB surround; imp 8 ohms center, 6 ohms surround. Black-micro pebble finish $149

NS-E60 Surround Speaker
Bass-reflex design with 4-in driver. Downward tilting design for wall mounting. Power handling 25 W; FR 70 Hz-20 kHz; imp 6 ohms. White. 7⅛ x 9¼ x 4½ in $118/pr

YANKEE

FPR-78 PM Ribbon Speaker
1,640 sq-in single-diaphragm planar-foil ribbon. Proprietary Litz internal wiring. Gold-plated 5-way binding posts. Power handling 100 W; FR 22 Hz-20 kHz ±2 dB; sens 90 dB; imp 4 ohms. 36 x 78 x 3½ in; 225 lb $19,800/pr
FPR-72 MkIII. As above, smaller diaphragm. FR 29 Hz-20 kHz ±2 dB; imp 3 ohms. 29½ x 72 x 3½ in; 135 lb $13,800/pr

FPR-V 2-Way Hybrid Ribbon Speaker
Subwoofer with 8-in driver and 708-square-in planar ribbon mid/tweeter element. Min input power 50 W. Power handling 100 W; crossover point 90 Hz; FR 27 Hz-20 kHz; sens 90 dB; imp 4 ohms. Black knit grille, hand-rubbed cardinal wood; optional solid-wood finish. 24-in wide x 73-in high; 135 lb $6,500/pr

FPR-III 2-Way Hybrid Ribbon Speaker
Subwoofer with 6½-in driver and 531-square-in planar ribbon mid/tweeter element. Min input power 50 W. Power handling 100 W; crossover point 125 Hz; FR 35 Hz-20 kHz; sens 90 dB; imp 4 ohms. Black knit grille, hand-rubbed cardinal wood; optional solid-wood finish. 20-in wide x 73-in high; 100 lb $4,400/pr
FPR-VII. As above, 280-square-in planar ribbon mid/tweeter element. 18-in wide x 73-in high; 85 lb $2,200/pr

Headphones

How to keep great sound to yourself

With headphones you can listen to music at satisfying levels at any time without disturbing those around you. And with headphones that exclude external noise, others won't disturb *you*, either. Headphones avoid the vagaries of room acoustics, which means that they will sound the same in almost any environment. A good set of phones can often sound as good as a pair of speakers many times more expensive.

Headphone styling, comfort, and construction offer an amazing array of choices. You can wear phones that fit in your ears, on your ears (supra-aural), or around your ears (circumaural). Supra- and circumaural phones can be held in place by clips around your ears or a headband. Ear cushions can be made of foam, vinyl, or leather, or even be filled with silicone gel. Some headphone cords have wires running to each earpiece, while others attach only to one earpiece and run the other wire through the headband, which is usually less restricting. Some cords are straight and others coiled.

SENNHEISER HD 400

A newer breed of headphones come with wireless transmitters, using either infrared or radio waves, that beam the audio signal to a receiver in the earpieces. Cordless phones that use radio waves offer greater freedom of movement and can even be used in a different room from your audio gear or TV.

Noise-canceling headphones not only passively block noise by sealing the phones to your ears but also use a microphone connected to electronic circuitry to invert the phase of the noise and feed it back into the phones, effectively canceling much of it. These work best on constant low-frequency noise and are thereby welcomed by travelers who have to contend with the ambient noise of trains, planes, and buses.

Dynamic headphones work like miniature conventional speakers, while electrostatic phones, an elite and expensive minority, require their own power supplies, not just an amplified signal. Some dynamic phones use neodymium magnetic material, which has a stronger magnetic field than ordinary iron alloys, allowing the phones to be lighter and more sensitive.

Generally, the very small and light earphones and headphones packaged with portable gear aren't designed for use with home components, and we don't include them in our listings. If you plan to listen with headphones at home, spend a little more for a true high-fidelity model with wide dynamic range (these start at about $60). You can obtain about the same quality of sound from both open and closed headphone designs, so choose whatever fits your taste and environment — and feels best for long-term wear. — *Rich Warren*

ADVENT

AW 770 Wireless Headphone System
40-mm titanium-impregnated diaphragms; neodymium magnets; transmitter. Self-adjusting headband; soft earcups; operates on AAA batteries; built-in battery charger. Includes 2 AAA batteries . . .$150

AW 720 Wireless Headphone System
32-mm titanium-impregnated diaphragms; neodymium magnets; transmitter. Self-adjusting headband; soft earcups; operates on AAA batteries; built-in battery charger. Includes 2 AAA batteries . . .$130

AIWA

HP-XV313 Headphones
16-ft, 5-in OFC cord with 24k-gold-plated miniplug. 35-mm drivers with neodymium magnets. In-line volume-control; mono/stereo switch; adjustable headband. Includes phone-plug adapter. FR 5 Hz-23 kHz $60

HP-X311 Headphones
9-ft, 10-in OFC cord with 24k-gold-plated miniplug. Folding design; 35-mm drivers with neodymium magnets. Adjustable headband. Includes phone-plug adapter. FR 5 Hz-23 kHz $35

HP-A371 Open-Air Headphones
6-ft, 7-in cord. 35-mm drivers with neodymium magnets. FR 10 Hz-22 kHz $25

HP-X211 Headphones
9-ft, 10-in OFC cord with 24k-gold-plated miniplug. Folding design; 28-mm drivers. Adjustable headband. Includes phone-plug adapter. FR 15 Hz-20 kHz $25

AKG ACOUSTICS

K1000 Open-Air Headphones
3-m OFC cord with gold-plated XLR plug. Linear magnet system; direct connection to power amps. Power handling 100 mW; FR 30 Hz-25 kHz; sens 74 dB; imp 120 ohms. 10 oz $1,456

K270S Headphones
9¾-ft cord. Single-side cord entry; gold-plated phone plug. Parabolic dual-transducer design; auto shut-off. Power handling 200 mW; FR 20 Hz-20 kHz; sens 92 dB; imp 75 ohms. 10 oz $320

K501 Open-Air Headphones
3-m cord with gold-plated miniplug. 45-mm drivers; circumaural design. Includes gold-plated phone-plug adapter. Power handling 200 mW; FR 16 Hz-30 kHz; sens 94 dB. 8 oz $226

K401 Open-Air Headphones
3-m cord with gold-plated miniplug. 45-mm diaphragm. Includes gold-plated screw-on phone-plug adapter. Power handling 200 mW; FR 18 Hz-28 kHz; sens 94 dB. 8 oz $187

K240M Headphones
9¾-ft cord. Single-side cord entry with gold-plated miniplug. Includes phone-plug adapter. Power handling 200 mW; FR 15 Hz-20 kHz; sens 88 dB; imp 600 ohms. 9 oz $173
K240DF. As above based on European performance requirements for reference headphones $192

K301 Open-Air Headphones
3-m cord with gold-plated miniplug. 45-mm diaphragm. Includes gold-plated screw-on phone-plug adapter. Power handling 200 mW; FR 20 Hz-25 kHz; sens 94 dB; imp 100 ohms. 8 oz $161

K141M Headphones
9¾-ft cord. Single-side cord entry with gold-plated miniplug. Supra-aural design. Includes phone-plug adapter. Power handling 200 mW; FR 20 Hz-20 kHz; sens 97.5 dB; imp 600 ohms. 8 oz $138

K100 Headphones
3-m cord. Supra-aural design. Self-adjusting head-

band. Includes gold-plated adapter. FR 20 Hz-28 kHz; sens 103 dB. 8 oz $124

K70 Headphones
3-m cord. Supra-aural design; dynamic-element driver. Self-adjusting headband. Includes gold-plated adapter. FR 20 Hz-20 kHz; sens 105 dB. 8 oz $61

AUDIO-TECHNICA

ATH-910 Headphones
9¾-ft cord with phone plug. Circumaural closed-back design; Samarium-cobalt magnets; large-diameter drivers; OFC CCAW voice coils. Adjustable double headband. Power handling 120 mW; FR 20 Hz-22 kHz; sens 92 dB. 7 oz $115

ATH-908 Headphones
9¾-ft cord with phone plug. Circumaural closed-back design; Samarium-cobalt magnets; large-diameter drivers; OFC voice coils. Adjustable double headband. Power handling 120 mW; FR 20 Hz-20 kHz; sens 90 dB. 7 oz $95

ATH-M3X Headphones
9¾-ft cord with miniplug. Closed-back design. Adjustable headband. Includes phone-plug adapter. Power handling 100 mW; FR 20 Hz-21 kHz; sens 100 dB. 5 oz $50

ATH-M2X Headphones
11½-ft cord with miniplug. Open-back design. Adjustable headband. Includes phone-plug adapter. Power handling 100 mW; FR 20 Hz-20 kHz; sens 100 dB. 4 oz $40

ATH-P5 Headphones
3⅜-ft cord with miniplug. 40-mm drivers with neodymium magnets; supra-aural open-back design. Adjustable headband. Includes phone-plug adapter. Power handling 100 mW; FR 20 Hz-20 kHz; sens 100 dB. 3 oz $30

ATH-P3 Headphones
3⅜-ft cord with miniplug. Supra-aural open-back design. Adjustable headband. Includes phone-plug adapter. Power handling 100 mW; FR 20 Hz-20 kHz; sens 98 dB. 3 oz $25

BEYERDYNAMIC

DT 931 Open-Air Headphones
10-ft coiled cord with gold-plated miniplug. Neodymium magnet driver. Includes phone-plug adapter. Power handling 50 mW; FR 5 Hz-35 kHz; sens 113 dB; imp 250 ohms. 10 oz $319

DT 911 Open-Air Headphones
6-ft coiled cord with gold-plated miniplug. Circumaural design; dynamic transducers using triple rare-earth magnets. Includes phone-plug adapter. Power handling 50 mW; FR 5 Hz-35 kHz; sens 115 dB; imp 250 ohms. 10 oz $249

DT 831 Headphones
10-ft coiled cord. Neodymium magnets; computer design diaphragms. Includes phone-plug adapter. Power handling 50 mW; FR 5 Hz-32 kHz; sens 113 dB. 10 oz $240

DT 901 Headphones
6-ft coiled cord with gold-plated miniplug. Closed design with circumaural earpads; bass-reflex technology; triple rare-earth magnets. Includes phone-plug adapter. Power handling 50 mW; FR 5 Hz-32 kHz; sens 115 dB; imp 250 ohms. 11 oz $239

DT 811 Open-Air Headphones
6-ft coiled with gold-plated miniplug. Neodymium magnet; circumaural design; bass-reflex technology. Includes phone-plug adapter. Power handling 100 mW; FR 5 Hz-30 kHz; sens 114 dB; imp 250 ohms. 6 oz $199
DT 801. As above with closed circumaural design and rare-earth magnet. Power handling 100 mW; FR 10 Hz-30 kHz; sens 114 dB; imp 250 ohms. 7 oz $189

DT 531 Open-Air Headphones
6-ft coiled cord with gold-plated miniplug. Circumaural design. Includes phone-plug adapter. Power handling 100 mW; FR 10 Hz-30 kHz; sens 115 dB; imp 250 ohms. 6 oz $179

DT 511 Headphones
6-ft coiled cord with gold-plated phone plug. Circumaural design. Power handling 100 mW; FR 10 Hz-22 kHz; sens 106 dB; imp 40 ohms. 5 oz . . .$159

DT 431 Open-Air Headphones
7½-ft straight cord with miniplug. Circumaural open design. Includes phone-plug adapter. Power handling 100 mW; FR 15 Hz-20 kHz; imp 40 ohms. 6 oz $129

DT-411 Open-Air Headphones
7½-ft straight cord with gold-plated miniplug. Supra-aural open design. Includes phone-plug adapter. Power handling 100 mW; FR 15 Hz-20 kHz; sens 122 dB; imp 40 ohms. 3 oz $109

DT 331 Open-Air Headphones
7½-m straight cord with miniplug. Circumaural open design. Power handling 100 mW; FR 20 Hz-20 kHz; sens 106 dB; imp 40 ohms. 6 oz $99

DT 131 Open-Air Headphones
12-ft cord. Dynamic transducers; single-side cord entry; replaceable soft earpads. Includes mini-plug adapter. Power handling 50 mW; FR 20 Hz-18 kHz; sens 113 dB. 4 oz $49

DT 211TY Open-Air Headphones
25-ft straight cable with phone plug. L/R volume control on cable. Includes phone-plug adapter. Power handling 100 mW; FR 30 Hz-18 kHz; sens 118 dB; imp 40 ohms. 3 oz $49

DENON

The following all have simulated leather earpads, a 10-ft cord with gold-plated miniplug, and include a screw-on ¼-inch phone-plug adapter.

AH-D950 Headphones
50-mm drivers with neodymium magnets; 6N OFC voice coils and cable; vapor-deposited-diamond diaphragms. Power handling 1500 mW; FR 2 Hz-31 kHz; sens 106 dB; imp 30 ohms. 9 oz . . .$165

AH-D750 Headphones
50-mm drivers with neodymium magnets; Class 1 linear-crystal OFC voice coils and cable; vapor-deposited titanium diaphragms. Power handling 1500 mW; FR 2 Hz-30 kHz; sens 106 dB; imp 30 ohms . . .$135

AH-D650 Headphones
50-mm drivers with neodymium magnets; OFC voice coils and cable. Power handling 1200 mW; FR 3 Hz-29 kHz; sens 106 dB; imp 35 ohms. 7 oz $100

AH-D550 Headphones
50-mm drivers with neodymium magnets; copper-clad aluminum wire for voice coils and cable. FR 3 Hz-28 kHz; sens 106 dB; imp 35 ohms. 7 oz $80

AH-D350 Headphones
40-mm drivers; polymer-film diaphragms; copper-clad aluminum-wire voice coils. Power handling 800 mW; FR 4 Hz-26 kHz; sens 104 dB; imp 32 ohms. 8 oz $65
AH-D210. As above with different driver housing. Reversible earcups. FR 5 Hz-26 kHz. 5 oz . . .$55

DISCWASHER

NRH200 Noise-Canceling Headphones
6-ft cord with miniplug. Includes headphone with connected battery pack for 9-V battery $140
Model 1553 Headphones. Gold-plated plug. Samarium-cobalt drivers.Wide headband $50
Model 1550 Headphones. Gold-plated plugs. Lightweight oversized headband $45
Model 1547 Headphones. Padded, locking headband. Numerically indexed adjustments $30

EMERSON BY JASCO

HP3810 Wireless Headphone System
100-ft range. Infrared transmitter with miniplug. L/R volume controls; operates on 2 AAA batteries. Includes AC adapter and RCA-jack adapter for transmitter. FR 20 Hz-15 kHz; imp 32 ohms $100

AV2800 Wireless Headphone System
100-ft range. RF transmitter; battery powered; padded headphones include built-in FM radio. Volume control; mono/stereo switch; on/off switch located on headphone; dual transmission frequency. Includes AC adapter. FR 20 Hz-17 kHz; imp 32 ohms $80

HP3809 Wireless Headphone System
20-ft range. Infrared transmitter with miniplug. Volume control; operates on 2 AAA batteries. Includes AC, RCA-jack, and speaker-mic adapters for transmitter. FR 50 Hz-12 kHz $75

HP3807 Headphones
3-m cord with miniplug. Single-side cord entry. Adapters for over-ear convertible design; samarium-cobalt magnets. Adjustable headband. Includes phone-plug adapter. FR 20 Hz-20 kHz; sens 105 dB at 1 kHz; imp 32 ohms $35

HP3806 Headphones
6½-ft cord with miniplug. Single-side cord entry. Drivers with samarium-cobalt magnets. Adjustable headband. Includes gold-plated phone-plug adapter. Power handling 100 mW; FR 20 Hz-20 kHz; sens 102 dB; imp 32 ohms $28

ETYMOTIC RESEARCH

ER-4S Sound Isolating Earphones
4-ft cord with miniplug. 20 to 25 dB of sound isolation. Phone-plug adapter. Includes 3 pairs of rubber eartips, 5 pairs of foam eartips, carrying pouch, shirt clip, and storage box. FR 20 Hz-16 kHz; sens 98 dB. 1 oz $330

GRADO LABS

The following feature vented-polymer diaphragms with air chambers, an adjustable headband, foam-covered earcups, and a 1-year parts-and-labor warranty. Ear cushions are replaceable, cord length is 7 feet and, except for SR60, terminates in phone plug.

RS-1 Open-Air Headphones
OFC cord. Wooden air chamber; OFC voice-coil wiring; vented-polymer diaphragms. Adjustable hand-stitched headband; foam-covered earcups. FR 10 Hz-35 kHz; sens 96 dB; imp 32 ohms . . .$695

Prestige SR325 Open-Air Headphones
Aluminum air chambers; linear-crystal OFC voice-coil wire and cord. FR 18 Hz-24 kHz; sens 96 dB; imp 32 ohms. 11 oz $295

Prestige SR225 Open-Air Headphones
FR 20 Hz-20 kHz; sens 94 dB; impedance 32 ohms. 8 oz $200

Prestige SR125 Open-Air Headphones
FR 20 Hz-20 kHz; sens 94 dB; impedance 32 ohms. 8 oz $150

Prestige SR80 Open-Air Headphones
FR 20 Hz-20 kHz; sens 94 dB; impedance 32 ohms. 8 oz $95

Prestige SR60 Open-Air Headphones
Miniplug. Copper voice-coil wire. Includes phone-plug adapter. FR 20 Hz-20 kHz; sens 94 dB; imp 32 ohms $69

"WP, KR, and ST are unanimous in calling these the best dynamic headphones they've ever heard."
—Stereophile Recommended Component
April 1998

"The magic of the HD 600s is their midrange—a purity of tone... that is quite special."
—Sam Tellig, Stereophile
February 1998

"...the Sennheiser HD 600s are a must-audition product—even, dare I suggest, a must-own."
—Wes Phillips, Stereophile
February 1998

makes raves

The Sennheiser HD 600 is, quite simply, the finest dynamic headphone ever created. With its exceptionally smooth frequency response, remarkable clarity, and unparalleled comfort, it virtually speaks for itself. It's reassuring to know, of course, that everyone else seems to agree with what it has to say.

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Sennheiser Canada: 221 Labrosse Ave, Pte-Claire, PQ H9R 1A3. Telephone: 514-426-3013. Fax: 514-426-3953
Manufacturing Plant: Am Labor 1, 30900 Wedemark, Germany

Headphones

JVC

HA-D990 Headphones
9¾-ft cord with 24k gold-plated plug. 40-mm plasma-evaporated-ruby diaphragms; closed design with circumaural earpads. Power handling 100 mW; FR 5 Hz-27 kHz; sens 106 dB; imp 65 ohms. 9 oz $150

HA-W100RF Wireless Headphone System
150-ft range. 900-MHz transmitter. Single-side volume control. Includes 2 AA batteries, phone-plug adapter, and AC adapter. FR 50 Hz-12 kHz. 11 oz $90

HA-D810 Headphones
9¾-ft cord with 24k gold-plated plug. 40-mm diaphragms; semi-closed design. Power handling 100 mW; FR 5 Hz-26 kHz; sens 104 dB; imp 32 ohms. 7 oz $80

HA-D50 Headphones
11½-ft OFC cord with 24k gold-plated miniplug. Single-side cord entry. 42-mm drivers; 180° rotary earcups for single-side monitoring; neodymium magnets. L/R sides touch-identifiable and in braille; self-adjusting headband; control knob for additional adjustment. Includes gold-plated phone-plug adapter. Power handling 100 mW; FR 8 Hz-24 kHz; sens 107 dB; imp 56 ohms. 10 oz $70

HA-D727 Headphones
11½-ft cord with 24k gold-plated plug. 40-mm diaphragms; closed design; 24k-gold-plated phone-plug adapter. Self-adjusting headband; L/R sides touch-identifiable and in Braille. Power handling 100 mW; FR 15 Hz-24 kHz; sens 106 dB; imp 32 ohms. 7 oz $70
HA-D626. As above, sens 107 dB. 6 oz $50
HA-D525. As above, FR 18 Hz-22 kHz; sens 103 dB. 7 oz $45

HA-D40 Headphones
11½-ft cord with 24k gold-plated miniplug. Single-side cord entry. 40-mm drivers; 180° rotary earcups for single-side monitoring; neodymium magnets. L/R sides touch-identifiable and in braille; self-adjusting headband. Includes gold-plated adapter. Power handling 100 mW; FR 16 Hz-23 kHz; sens 103 dB; imp 32 ohms. 9 oz $50

HA-D30 Headphones
11½-ft OFC cord. 40-mm drivers; 180° rotary earcups for single-side monitoring. Self-adjusting headband. Includes gold-plated adapter. Power handling 100 mW; FR 18 Hz-23 kHz; sens 102 dB; imp 32 ohms. 8 oz $45

HA-P75 Headphones
4¾-ft cord with 24k gold-plated right-angle miniplug. 30-mm drivers with neodymium magnets. Single-side monitoring; reversible earcups. Power handling 50 mW; FR 10 Hz-23 kHz; sens 108 dB; imp 32 ohms. 4 oz $45

HA-CD88 Headphones
6½-ft cord with 24k gold-plated plug. 30-mm diaphragms; Super Bass Sound Systems. L/R sides touch-identifiable and in Braille; 24k-gold-plated adapter. Power handling 50 mW; FR 14 Hz-22 kHz; sens 102 dB; imp 32 ohms. 1 oz $40

HA-D20 Headphones
11½-ft with 24k gold-plated miniplug. 40-mm drivers; 180° rotary earcups for single-side monitoring. Self-adjusting headband. Includes 24k-gold-plated adapter. Power handling 50 mW; FR 18 Hz-22 kHz; sens 93 dB; imp 32 ohms. 6 oz $35

HA-V550 Headphones
3-m cord with 24k gold-plated miniplug. 40-mm drivers; super bass ducts for enhanced bass sound. Volume control on cord. Includes gold-plated phone-plug adapter. Power handling 50 mW; FR 8 Hz-20 kHz; sens 103 dB; imp 32 ohms. 4 oz $35

HA-CD70F Open-Air Headphones
6½-ft with 24k gold-plated right-angle miniplug. Folding design; 30-mm drivers; super bass ducts for enhanced bass sound. Includes travel pouch. FR 8 Hz-22 kHz; sens 98 dB; imp 32 ohms. 2 oz ... $25

HA-F65 In-Ear Headphones
4-ft cord with 24k right-angle miniplug. 15-mm diaphragms; Super Bass Sound System. Compact reel-in storage case. Power handling 30 mW; FR 16 Hz-20 kHz; sens 105 dB; imp 16 ohms $25

KENWOOD

The following all have gold-plated miniplugs and include phone-plug adapters.

KPM-810 Noise-Canceling Headphones
5-ft OFC cord. Folding design; noise-canceling circuitry; 36-mm drivers; neodymium magnets. Adjustable headband and padded-leather earcup covers. Includes carrying case, and battery $100

KPM-510 Headphones
10-ft coiled cord. Single-side cord entry. 40-mm drivers. Adjustable padded-leather headband and earcup covers; form-fit padding $80

KPM-410 Headphones
3-m cord. 40-mm drivers with neodymium magnets. Adjustable headband and earcup covers; form-fit padding; built-in volume control. FR 20 Hz-21 kHz $50

KPM-310 Headphones
3-m cord. 40-mm drivers with neodymium magnets. Adjustable headband and earcup covers; built-in volume control. FR 20 Hz-20 kHz $30

KLH

The following all have gold-plated miniplugs and include phone-plug adapters.

KHP500S Headphones
9-ft cord. Neodymium magnets; 40-mm drivers. On-line volume control; adjustable padded headband; soft-leather earpads. FR 20 Hz-22 kHz; sens 103 dB; imp 32 ohms. 1 oz $70

KHP420V Headphones
9-ft cord. Neodymium magnets; 40-mm drivers; bass boost. In-line volume control; adjustable headband; soft-leather earpads. FR 20 Hz-25 kHz; sens 106 dB; imp 64 ohms. 1 oz $60

KHP201TW Headphones
9-ft cord. Neodymium magnets; 40-mm drivers. Built-in volume control; soft-leather earpads; adjustable headband. Includes wind-up earbuds with case. FR 20 Hz-20 kHz; sens 105 dB; imp 32 ohms. 1 oz $40

KHP200V Headphones
9-ft cord. Neodymium magnets; 40-mm drivers. Soft-leather earpads; adjustable headband. FR 20 Hz-20 kHz; sens 105 dB; imp 32 ohms. 1 oz ... $30

KOSS

The following feature a lifetime warranty. Except for TD/61, they also feature Neodymium iron-boron magnets and OFC voice coils. Unless otherwise indicated, they have miniplugs and include phone-plug adapters.

ESP/950 Electrostatic Headphones
Straight dual-entry 4-ft cord with custom plug. Closed design. Adjustable and detachable headband; pivoting earcups. Includes E/90 energizer/amplifier and leather carrying case. FR 8 Hz-35 kHz; sens 104 dB; imp 100 ohms. 13 oz $800

Auditor A/250 Open-Air Headphones
Straight dual-entry 8-ft cord with phone plug. Closed simulated-leather earcushions for improved bass and isolation. Detachable, padded, and adjustable headband. FR 16 Hz-25 kHz; sens 98 dB; imp 60 ohms. 9 oz $250

A/200 Open-Air Headphones
Straight dual-entry 8-ft cord with phone plug. Velvet fabric-covered-foam ear cushions. Detachable, padded, and adjustable headband. Power handling 100 mW; FR 18 Hz-25 kHz; sens 98 dB; imp 60 ohms. 8 oz $200

A/130 Headphone
Straight dual-entry 8-ft cord with phone plug. Closed simulated-leather cushions for isolation. Detachable, padded, and adjustable headband. Power handling 100 mW; FR 16 Hz-23 kHz; sens 98 dB; imp 60 ohms. 8 oz $150

R-200 Open-Air Headphones
Detachable 8-ft coiled cord. Single-side cord entry. Phase II control box featuring 3 dimensional stereo and channel adjustment. Adjustable padded headband. Includes 2 detachable cords. Power handling 100 mW; FR 18 Hz-23 kHz; sens 84 dB; imp 60 ohms. 8 oz $90

R/100 Headphones
Detachable 8-ft coiled cord. Single-side cord entry. Closed design; phase II control box featuring 3 dimensional stereo. Adjustable padded headband. Includes 2 detachable cords. FR 16 Hz-22 kHz; sens 85 dB; imp 60 ohms. 8 oz $90

R/80 Headphones
Detachable 8-ft coiled cord. Single-side cord entry. Adjustable headband with sling. Power handling 100 mW; FR 16 Hz-22 kHz; sens 101 dB; imp 60 ohms. 7 oz $70

R/90 Open-Air Headphones
Detachable 8-ft coiled cord. Single-side cord entry. Adjustable headband with sling. Power handling 100 mW; FR 18 Hz-23 kHz; sens 100 dB; imp 60 ohms. 8 oz $70

R/45 Open-Air Headphones
Straight dual-entry 4½-ft cord. Phase II control box featuring 3 dimensional stereo channel adjustment. Adjustable padded headband. Power handling 100 mW; FR 20 Hz-22 kHz; sens 85 dB; imp 60 ohms. 6 oz $60

R/40 Headphones
Straight dual-entry 4½-ft cord. Phase II control box featuring 3 dimensional stereo and channel adjustment. Adjustable padded headband. Power handling 100 mW; FR 18 Hz-20 kHz; sens 90 dB; imp 60 ohms. 5 oz $55

R/30S Headphones
Straight dual-entry 8-ft cord. Adjustable headband with sling; dual volume control on the cord. Power handling 100 mW; FR 18 Hz-20 kHz; sens 106 dB; imp 60 ohms. 5 oz $50

R/35S Open-Air Headphones
Straight dual-entry 8-ft cord. Variable density earcushions for better bass. Adjustable headband with sling. Power handling 100 mW; FR 20 Hz-22 kHz; sens 101 dB; imp 60 ohms. 5 oz $50

R/50B Headphones
Straight dual-entry 8-ft cord. Mic. Adjustable headband. Power handling 100 mW; FR 30 Hz-20 kHz; sens 103 dB. 5 oz $50

R/20 Open-Air Headphones
Straight dual-entry 8-ft cord. Variable density earcushions for better bass. Adjustable headband. Power handling 100 mW; FR 20 Hz-22 kHz; sens 101 dB; imp 60 ohms. 5 oz $45

R/10 Headphones
Straight dual-entry 8-ft cord. Adjustable headband. Power handling 100 mW; FR 30 Hz-22 kHz; sens 103 dB; imp 60 ohms. 5 oz $40

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Headphones

TD/65 Headphones
Straight dual-entry 8-ft cord. Closed design; ferrite magnets. Adjustable headband with sling. Power handling 100 mW; FR 20 Hz-17 kHz; sens 101 dB; imp 90 ohms. 9 oz $30

TD/61 Headphones
Straight dual 8-ft cord. Dynamic element. Adjustable headband with sling. Power handling 100 mW; FR 20 Hz-20 kHz; sens 93.5 dB; imp 38 ohms. 5 oz $25

NOISE CANCELLATION TECHNOLOGIES

NoiseBuster Extreme Noise-Canceling Headphone System
Phone plug. Battery-powered; electronics pack with belt clip; active noise-cancellation circuitry reduces low-frequency environmental noise by creating "anti-noise" signal to reduce noise picked up by mic in each earcup; 15-dB noise reduction from 30 Hz-1.2 kHz. Adjustable headband; noise-reduction defeat for use as conventional headphones. Includes dual-prong plug for in-flight entertainment systems. FR 20 Hz-20 kHz. 5 oz $69

ONKYO

DP-600 Headphones
3-m OFC cord with gold-plated phone plug. 1¾-in drivers; closed housing with open back. FR 4 Hz-28 kHz; sens 92 dB; imp 600 ohms $110

DP-400 Headphones
3-m OFC cord with gold-plated miniplug. 2-mm polymer-film diaphragms; closed housing with open back; neodymium magnets. Includes phone-plug adapter. FR 4 Hz-28 kHz; sens 106 dB; imp 35 ohms $70

DP-200 Open-Air Headphones
2½-m OFC cord with gold-plated miniplug. 1⅜-in high-polymer film diaphragms; ferrite magnets. Includes phone-plug adapter. FR 20 Hz-22 kHz; sens 97 dB; imp 40 ohms $40

OPTIMUS BY RADIO SHACK

PRO-100 Wireless Headphone System
150-ft range. Level and frequency controls; operates on built-in rechargeable battery. Includes 6-ft cord and RCA-jack adapters for transmitter $130

PRO-155 Headphones
8-ft cord with ¼-in gold-plated plug. Closed design; dynamic element. Detachable headband. Power handling 100 mW; FR 16 Hz-23 kHz; sens 98 dB; imp 60 ohms. 10 oz $100

Model 33-1163 Wireless Headphone System
22-ft range. Infrared transmitter; built-in recharger. On/off switch; volume control. Includes 2 rechargeable AA batteries, miniplug adapter, and AC adapter $70

PRO-135 Headphones
Detachable 8-ft coiled cord with gold-plated phone plug. Closed design. Padded headband. Power handling 100 mW; FR 16 Hz-22 kHz; sens 101 dB; imp 60 ohms $70

Model 33-1057 Headphones
10-ft cord with gold-plated miniplug. 40-mm driver; neodymium magnet; foam-filled ear cushions. Controls on cord. FR 5 Hz-22 kHz; sens 104 dB; imp 32 ohms. 14 oz $50

PRO-145 Open-Air Headphones
Dual-entry 8-ft cord with ¼-in gold-plated plug. Pivoting earcups. Power handling 100 mW; FR 20 Hz-22 kHz; sens 101 dB; imp 60 ohms. 6 oz ... $50

PRO-40 Headphones
8-ft cord with gold-plated phone plug. Foam-filled cushions provide maximum isolation from outside sounds. FR 20 Hz-20 kHz $50

PRO-50 MX Headphones
9-ft cord with gold-plated mic and headphone plugs. Headphones include dynamic mic on flexible boom. FR 20 Hz-20 kHz $50

Nova-70 Headphones
8-ft cord with gold-plated miniplug. Designed for use with personal computers. Neodymium-magnet driver; soft-foam ear cushions. Power handling 100 mW; FR 20 Hz-20 kHz; sens 100 dB; imp 60 ohms. 3 oz $40

PRO-25 Headphones
6-ft cord with gold-plated miniplug. Titanium-layered diaphragms; OFC coils; neodymium magnets. Volume control on cord. FR 15 Hz-20 kHz $40

Model 33-1103 Earphones
4-ft cord. 15-mm drivers; cobalt magnets. In-line volume-control. Includes mono adapter, airline adapter, and wind-up case. Power handling 10 mW; FR 20 Hz-20 kHz; sens 107 dB $25

Nova 71 Headphones
7½-ft cord. Ferrite magnets. Pivoting earcups. FR 20 Hz-20 kHz $25

PANASONIC

RP-WH50 Wireless Headphone System
23-ft range. Infrared transmitter; 1¼-in drivers; line- and headphone-level outputs. FR 18 Hz-22 kHz. 5 oz $140

RP-HT950 Headphones
12-ft OFC Litz cord with gold-plated plug. 40-mm drivers with neodymium magnets. Power handling 500 mW; FR 5 Hz-28 kHz; sens 102 dB; imp 32 ohms. 10 oz $130

RP-HT127 Headphones
10-ft OFC cord. 1½-in drivers with neodymium magnets. Removable earpads. FR 10 Hz-27 kHz $85

RP-HT96 Headphones
1½-in drivers. Simulated-leather earpads. FR 8 Hz-28 kHz $80

RP-HT117 Open-Air Headphones
10-ft OFC cord. 1½-in drivers with neodymium magnets. FR 10 Hz-27 kHz $70

RP-HV600 Earphones
Sound-control switch; twist-free cord. FR 10 Hz-26 kHz $65

RP-HT245 Headphones
16½-ft cord. 1½-in drivers. Volume control on cord; simulated-leather earpads. FR 10 Hz-27 kHz ... $50

RP-HT240 Headphones
OFC cord. 1½-in drivers. Simulated-leather earpads. FR 10 Hz-27 kHz $40

RP-HT48 Headphones
16½-ft cord. 1⅛-in drivers. Volume control on cord; simulated-leather earpads. FR 20 Hz-22 kHz ... $38

RP-HV530D Earphones
Bass ports. Twist-free cord. FR 10 Hz-25 kHz ... $38

RP-HT38 Headphones
Single-side cord entry. 1⅛-in drivers with neodymium magnets. Simulated-leather pads $35

RP-HV370 Earphones
Neodymium magnets. Rotary-fit adjustment ... $33

RP-HT28 Headphones
Single-side cord entry. Neodymium magnets. Rotary-fit adjustment. FR 10 Hz-25 kHz $26

PFANTONE

MHP-77CD Headphones
Miniplug. Includes phone-plug adapter $48

PICKERING

CD-5 Headphones
7½-ft coiled cord with gold-plated miniplug. Single-side entry. Samarium-cobalt magnets. Includes Phone-plug adapter. FR 20 Hz-20 kHz; imp 35 ohms $60

CD-2 Headphones
7½-ft 4-conductor cord with phone plug. Samarium-cobalt magnets. Includes mini-plug adapter. FR 10 Hz-20 kHz $30

PIONEER

Weights for the following do not include cord.

SE-A50 Headphones
9⅞-ft OFC Litz cord. 38-mm drivers. Power handling 1 W/ch; FR 20 Hz-20 kHz; imp 35 ohms. 6 oz ... $50
SE-A40. As above, 33-mm drivers $40

SE-M350 Headphones
9⅞-ft OFC Litz cord. Single-side cord entry. Power handling 1 W/ch; imp 35 ohms. 8 oz $48
SE-M250. As above, dual-entry cord. FR 10 Hz-23 kHz. 8 oz $38

RADIO SHACK

LV-20 Headphones
8-ft cord with gold-plated phone plug. Earcup vents. Volume control on cord; foam-filled cushions. FR 20 Hz-20 kHz $40

Nova 67 Open-Air Headphones
8-ft cord with phone plug. Foam cushions; padded headband. FR 20 Hz-20 kHz $35

Model 33-991 Earphones
3½-ft cord with gold-plated miniplug. Volume control on cord. Includes case $30

Nova 56 Headphones
8-ft cord with phone plug. Supra-aural design; neodymium magnets. Pivoting foam-cushioned earcups; adjustable headband $30

RECOTON

WP 525 Wireless Headphone System
150-ft range. 900-MHz transmitter; 40-mm drivers with samarium-cobalt magnets; titanium-impregnated diaphragms; copper voice coils; Ni-Cd rechargeable batteries that last up to 8 hrs at half volume. Auto self-adjusting lead band; 4-in diameter earcups; auto mute for weak signals and temporary signal loss; on/off switch with indicator light. Includes AC adapter, RCA-jack adapter with 6-ft cord. FR 15 Hz-15 kHz $190

W500 Wireless Headphone System
150-ft range. 900-MHz transmitter. Includes AC adapter, RCA-jack adapter with 6-ft cord $150
W501. Extra transmitter $80
W502. Extra headset $80
W507. Replacement Ni-Cd battery $12.99
W510CG. Trickle charger $11.99

W200SX Wireless Headphone System
900-MHz transmitter; belt clip receiver; battery powered. Can also be used with any headphones. Includes AC adapter $130
W201SX. Extra transmitter $60
W206B. Extra receiver $30
EG35 Headphones. $17.99
EG44. Coiled extension with 3 adapters $14.99

SENNHEISER

HE/HEV 90 Orpheus Powered Electrostatic Headphones
Outboard tube amplifier rated at 400 V rms amp with built-in D/A converter. Transformerless output design; honeycombed glass electrodes; aluminum tube covers; solid aluminum base. FR 25 Hz-75 kHz; sens 98 dB $14,900

Headphones

HE 90. Headphones only $7,450
HEV 90. Amplifier only $7,450

HE 60/HE 70 Electrostatic Headphones
Push-pull design; polymer-foil diaphragms; pure Class A amplifier operation; MOSFET outputs; Alps potentiometer. FR 12 Hz-65 kHz. 9 oz $1,800

HD 600 Open-Air Headphones
10-ft Kevlar-reinforced OFC cord with miniplug. Lightweight aluminum voice coils; neodymium-ferrous magnets; open metal-mesh earpiece covers. Includes phone-plug adapter. FR 12 Hz-38 kHz; sens 97 dB; imp 300 ohms. 9 oz $450

HD 580 Headphones
10-ft cord with miniplug. Circumaural design; composite diaphragms; open-back earcup; triple-wound aluminum voice coils. Velvet ear cushions. Includes phone-plug adapter. FR 12 Hz-38 kHz; sens 97 dB; imp 300 ohms. 9 oz $350

HD 565 Headphones
10-ft Kevlar-reinforced OFC cord with miniplug. Circumaural design; silk-dome damping; bass-tube tuning. Velvet ear cushions. Includes phone-plug adapter. FR 16 Hz-30 kHz; sens 96 dB; imp 150 ohms. 9 oz $290

HDC 451-1 Noise-Canceling Headphones
Noise-Guard noise-cancellation circuitry; stereo mini-jack. Operates on two AA batteries. Includes battery pack and 2-prong adapter for airline use. FR 20 Hz-18 kHz; imp 270 ohms. 4 oz $269

HD 265 Headphones
10-ft Kevlar-reinforced OFC cord with miniplug. Circumaural design; neodymium-ferrous magnets; Duofol composite diaphragm; triple-wound aluminum voice coils; field-replaceable parts; polycarbonate-dome damping. Includes phone-plug adapter. Sens 99 dB; imp 150 ohms. 9 oz ...$250

HD 545 Headphones
10-ft Kevlar-reinforced OFC cord. Circumaural design; polycarbonate-dome damping; triple-wound aluminum voice coils. FR 16 Hz-28 kHz; sens 96 dB; imp 150 ohms. 9 oz $200

HD 535 Headphones
10-ft Kevlar-reinforced OFC cord miniplug. Circumaural design; neodymium-ferrous magnets; field-replaceable parts. Includes phone-plug adapter. FR 20 Hz-25 kHz; sens 97 dB; imp 150 ohms. 8 oz ...$170

HD 570 Symphony Headphones
10-ft OFC cord. Contoured earcups; Duofol-composite diaphragm; neodymium magnets; aluminum voice coils. Velour ear cushions. FR 18 Hz-22 kHz; sens 95 dB; imp 120 ohms. 7 oz $170

HD 25-SP Headphones
10-ft cord with miniplug. Circumaural design; modular parts; neodymium-ferrous magnets. Includes phone-plug adapter. FR 30 Hz-16 kHz; sens 105 dB; imp 85 ohms. 5 oz $150

HD 475 Headphones
10-ft Kevlar-reinforced OFC cord with miniplug. Supra-aural design; triple-wound aluminum voice coils; diffuse-field EQ. Includes phone-plug adapter. FR 16 Hz-23 kHz; sens 94 dB; imp 60 ohms. 4 oz $150

HD 465 Headphones
10-ft replaceable Kevlar-reinforced OFC cord with miniplug. Single-side cord entry. Supra-aural design; triple-wound aluminum voice coils; neodymium-ferrous magnets. Adjustable headband. Includes phone-plug adapter. FR 18 Hz-22 kHz; sens 94 dB; imp 60 ohms. 4 oz $130

HD 500 Fusion Headphones
10-ft OFC cord. Contoured earcups; circumaural design; Duofol diaphragm. Leather ear cushions. FR 14 Hz-21 kHz; sens 105 dB; imp 32 ohms. 7 oz ...$130

HD 525 Open-Air Headphones
10-ft Kevlar-reinforced OFC cord with miniplug. Neodymium-ferrous magnets. Includes phone-plug adapter. Sens 94 dB; imp 150 ohms. 8 oz $129

HD 455 Headphones
10-ft Kevlar-reinforced OFC cord with miniplug. Supra-aural design; neodymium-ferrous magnets; triple-wound copper voice coils. Includes phone-plug adapter. Sens 94 dB; imp 52 ohms. 4 oz $100

HD 445 Headphones
10-ft Kevlar-reinforced OFC cord with miniplug. Supra-aural design; radial-bead diaphragms; replaceable parts. Includes phone-plug adapter. FR 20 Hz-20 kHz; sens 94 dB; imp 52 ohms. 5 oz $80

HD 435 Headphones
10-ft Kevlar-reinforced OFC cord with miniplug. Supra-aural; triple-wound voice coils. Includes phone-plug adapter. Sens 94 dB; imp 32 ohms. 4 oz ...$60

HD 470 Headmax Headphones
10-ft OFC cord. Supra-aural design; contoured earcups; open earcup cover; Duofol diaphragm; copper voice coils. Power handling 100 mW; FR 22 Hz-20 kHz; sens 94 dB; imp 32 ohms. 5 oz ...$60

HD 400 Headmax Headphones
10-ft OFC cord. Supra-aural design; contoured

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COLOR OF SOIL
JVCXR-0207-2

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earcups; open earcup cover; copper voice coils. Self-adjusting headband. Power handling 100 mW; FR 25 Hz-18 kHz; sens 94 dB; imp 32 ohms. 5 oz $40

HD 433 Open-Air Headphones
10-ft Kevlar-reinforced OFC cord with miniplug. Triple-wound voice coils. Includes phone-plug adapter. FR 18 Hz-20 kHz; sens 94 dB; imp 32 ohms. 4 oz $40

HD 56 Headphones
3-ft Kevlar-reinforced OFC cord with miniplug. Neodymium-ferrous magnets. Includes phone-plug adapter. FR 18 Hz-20 kHz; sens 100 dB; imp 32 ohms. 3 oz $30

Wireless Headphone Series
IS 850 Digital Wireless Headphone System
450-ft omnidirectional range. Infrared transmitter; 64X-oversampling delta-sigma A/D converters; composite diaphragms; neodymium-ferrous magnets; Toslink fiber-optic, coaxial-digital, and gold-plated RCA jacks. FR 10 Hz-22 kHz. 12 oz $1,396

RS 8 Wireless Open-Air Headphone System
250-ft omnidirectional range. 900-MHz transmitter; supra-aural design; HiDyn Plus noise reduction; fixed antenna; auto on/off transmitter switch; auto frequency control. 3 switchable frequencies; LED stereo indicator and volume control on headband. FR 20 Hz-22 kHz; sens 150 dB. 6 oz $370
RS 6. As above, no HiDyn Plus $270

IS 450 Wireless Headphone System
375-ft omnidirectional range. Infrared noise-free transmitter with auto turn-on/off. Includes rechargeable Ni-Cd battery. FR 20 Hz-22 kHz. 6 oz $260
Additional headset $181
Additional battery $14

Direct Ear SET 100 Wireless Headphone System
375-ft omnidirectional range. Infrared transmitter. Includes extra rechargeable batteries. FR 30 Hz-18 kHz. 1 oz $219
Additional headset $130

MX Series
MX5 Earphones
3-ft cord with right-angle miniplug. Volume control on headset. Black with silver decorative rings. Includes storage case. FR 18 Hz-22 kHz; sens 106 dB; imp 17 ohms $45
MX4. As above, blue with black rings $25

SONY
MDR-F1 Open-Air Headphones
11½-ft OFC cord with gold-plated miniplug. Single-side cord entry. 50-mm drivers with neodymium magnets. Self-adjusting headband. Includes gold-plated phone-plug adapter. Power handling 700 mW; FR 10 Hz-30 kHz; sens 100 dB; imp 12 ohms. 7 oz $300

MDR-D55 Headphones
5-ft linear-crystal OFC cord with gold-plated miniplug. Single-side cord entry. Closed design; 30-mm drivers with neodymium magnets. Foldable; shape-memory alloy headband. Gold-plated phone-plug adapter. Power handling 500 mW; FR 10 Hz-25 kHz; sens 104 dB; imp 45 ohms. 4 oz $180

MDR-D33 Headphones
5-ft OFC cord with gold-plated right-angle miniplug. Single-side cord entry. Closed design; 30-mm drivers with neodymium magnets. Foldable; shape-memory alloy headband. Includes gold-plated phone-plug adapter. Power handling 500 mW; FR 10 Hz-25 kHz; sens 104 dB; imp 45 ohms. 4 oz $130

MDR-G61 Open-Air Headphones
5-ft OFC cord with gold-plated right-angle miniplug. Single-side cord entry. 30-mm drivers with neodymium magnets. Power handling 100 mW; FR 14 Hz-24 kHz; sens 105 dB; imp 24 ohms. 2 oz $35

MDR-G51 Open-Air Headphones
5-ft OFC cord with gold-plated right-angle miniplug. Single-side cord entry. 30-mm drivers with ferrite magnets. Power handling 100 mW; Sens 104 dB; imp 24 ohms. 2 oz $30

MDR-A44L In-Ear Headphones
4-ft OFC cord with gold-plated right-angle miniplug. 16-mm drivers with neodymium magnets. Foldable. Power handling 50 mW; FR 10 Hz-23 kHz; sens 108 dB; imp 16 ohms. 1 oz $25

CD Series
MDR-CD3000 Headphones
9⅞-ft 6N OFC cord with gold-plated miniplug. Single-side cord entry. Closed design; 50-mm drivers with neodymium magnets; bio-cellulose diaphragm with copper-clad aluminum wire. Includes carrying case and gold-plated phone-plug adapter. Power handling 1000 mW; FR 20 Hz-20 kHz; sens 104 dB; imp 32 ohms. 14 oz $650

MDR-CD1700 Headphones
11½-ft linear-crystal OFC Litz cord with gold-plated miniplug. Single-side cord entry. Closed design; 50-mm drivers with neodymium magnets; bio-cellulose diaphragm. Self-adjusting headband; soft-cloth earpads. Includes gold-plated phone-plug adapter. Power handling 1000 mW; FR 5 Hz-30 kHz; sens 106 dB; imp 32 ohms. 12 oz $350

MDR-CD870 Headphones
11½-ft linear-crystal OFC cord with gold-plated miniplug. Single-side cord entry. Closed design; 50-mm drivers with neodymium magnets; amorphous-diamond diaphragm. Self-adjusting headband. Includes gold-plated phone-plug adapter. Power handling 1000 mW; FR 5 Hz-30 kHz; sens 106 dB; imp 32 ohms. 12 oz $250

MDR-CD770 Headphones
11½-ft single-sided linear-crystal OFC cord with gold-plated miniplug. Single-side cord entry. Closed design; 50-mm drivers with neodymium magnets. Self-adjusting headband. Includes gold-plated phone-plug adapter. Power handling 1000 mW; FR 5 Hz-30 kHz; sens 106 dB; imp 32 ohms. 11 oz $200

MDR-CD570 Headphones
11½-ft OFC cord with gold-plated miniplug. Single-side cord entry. Closed design; 40-mm drivers with neodymium magnets. Self-adjusting headband. Includes gold-plated phone-plug adapter. Power handling 500 mW; FR 10 Hz-25 kHz; sens 106 dB; imp 40 ohms. 9 oz $100

MDR-CD360 Headphones
11½-ft OFC cord with gold-plated miniplug. Single-side cord entry. Closed design; 40-mm drivers with ferrite magnets. Self-adjusting headband. Includes gold-plated phone-plug adapter. Power handling 500 mW; Sens 100 dB; imp 40 ohms. 8 oz $70

MDR-CD160 Headphones
9⅞-ft OFC cord with gold-plated miniplug. Closed design; 30-mm drivers with ferrite magnets. Includes gold-plated phone-plug adapter. Power handling 500 mW; FR 16 Hz-20 kHz; sens 98 dB; imp 24 ohms. 5 oz $30

Studio Monitor Series
MDR-V900 Headphones
9⅞-ft linear-crystal OFC cord with gold-plated miniplug. Single-side cord entry. Closed design; 50-mm drivers with neodymium magnets; amorphous-diamond evaporated diaphragm. Foldable. Includes gold-plated phone-plug adapter. Power handling 3000 mW; FR 5 Hz-30 kHz; sens 107 dB; imp 24 ohms. 11 oz $260

MDR-V600 Headphones
9⅞-ft OFC coiled cord with gold-plated miniplug. Single-side cord entry. Closed design; 40-mm drivers with neodymium magnets and copper-clad-aluminum voice coils. Foldable. Includes gold-plated phone-plug adapter. Power handling 1000 mW; FR 5 Hz-30 kHz; sens 106 dB; imp 45 ohms. 9 oz $130

MDR-V400 Headphones
9⅞-ft OFC cord with gold-plated miniplug. Single-side cord entry. Closed design; 30-mm drivers with neodymium magnets and copper-clad-aluminum voice coils. Foldable. Includes gold-plated phone-plug adapter. Power handling 500 mW; FR 10 Hz-25 kHz; sens 104 dB; imp 24 ohms. 6 oz $90

MDR-V200 Headphones
9⅞-ft OFC cord with gold-plated miniplug. Closed design; 30-mm drivers with ferrite magnets and copper-clad-aluminum voice coils. Foldable. Includes gold-plated phone-plug adapter. Power handling 500 mW; FR 16 Hz-20 kHz; sens 100 dB; imp 24 ohms. 5 oz $50

MDR-V100MK2 Headphones
6⅝-ft cord with gold-plated miniplug. Closed design; 23-mm drivers. Includes gold-plated phone-plug adapter. Power handling 100 mW; FR 20 Hz-20 kHz; sens 98 dB; imp 32 ohms. 5 oz $30

Noise-Canceling Headphone Series
MDR-NC20 Headphones
5-ft OFC cord with gold-plated right-angle miniplug. 30-mm drivers with neodymium magnets; 10-dB noise reduction at 300 Hz. Includes carrying case and plug adapter for airline use. Power handling 100 mW; FR 16 Hz-22 kHz; sens 102 dB; imp 24 ohms. 6 oz $200

MDR-NC10 Earphones
4⅝-ft cord with gold-plated right-angle miniplug. 13½-mm drivers with neodymium magnets; 10-dB noise reduction at 300 Hz. Includes carrying case and plug adapter for airline use. Power handling 100 mW; FR 10 Hz-22 kHz; sens 106 dB; imp 27 ohms. 2 oz $200

MDR-NC5 Open-Air Headphones
5-ft OFC cord with gold-plated right-angle miniplug. 30-mm drivers with neodymium magnets; 10-dB noise reduction at 300 Hz. Includes carrying pouch and plug adapter for airline use. FR 30 Hz-15 kHz; sens 100 dB; imp 17 ohms. 4 oz $100

Wireless Headphone Series
MDR-RF950RK Wireless Headphone System
150-ft range. 900-MHz transmitter; closed design; 30-mm drivers with ferrite magnets; built-in recharger. Auto power on/off switch; noise filter switch; volume control. Includes AC adapter, phone-plug adapter, connecting cord, and rechargeable battery. FR 18 Hz-20 kHz. 9 oz $150

MDR-IF330RK Wireless Open-Air Headphone System
23-ft range. Infrared transmitter; 30-mm drivers with ferrite magnets; built-in recharger. Auto power on/off switch; volume control. Includes AC adapter, phone-plug adapter, connecting cord, and rechargeable battery. FR 18 Hz-22 kHz. 6 oz $100

MDR-RF930K Wireless Open-Air Headphone System
150-ft range. 900-MHz transmitter; 30-mm drivers with ferrite magnets. Auto power on/off switch; noise filter switch; volume control. Includes AC adapter, phone-plug adapter, and connecting cord. FR 20 Hz-20 kHz. 8 oz $100

Prices given are "list."
Dealer prices may vary.

Headphones

MDR-IF230RK Wireless Open-Air Headphone System
23-ft range. Infrared transmitter; 30-mm drivers with ferrite magnets; built-in recharger. Auto power on/off switch; volume control. Includes AC adapter, phone-plug adapter, connecting cord, and rechargeable battery. FR 18 Hz-22 kHz. 6 oz $70
MDR-IF230. Extra headset for above without built-in recharger. FR 18 Hz-22 kHz. 6 oz $50

Earphone Series
MDR-E888LP Earphones
4-ft linear-crystal OFC cord with gold-plated right-angle miniplug. 16-mm drivers with neodymium magnets; bio-cellulose diaphragm. Includes case and ear pads. Power handling 50 mW; FR 8 Hz-27 kHz; sens 108 dB; imp 16 ohms $80

MDR-E848LP Earphones
4-ft OFC cord with gold-plated right-angle miniplug. 16-mm drivers with neodymium magnets. Includes case and ear pads. Power handling 50 mW; FR 10 Hz-23 kHz; sens 108 dB; imp 16 ohms $30

Original Series
MDR-605LP Open-Air Headphones
9⅞-ft OFC cord with gold-plated miniplug. Single-side cord entry. Circumaural design; 40-mm drivers with neodymium magnets. Self-adjusting headband. Includes gold-plated phone-plug adapter. Power handling 500 mW; FR 12 Hz-24 kHz; sens 106 dB; imp 40 ohms. 5 oz $70

MDR-501LP Open-Air Headphones
9⅞-ft OFC cord with gold-plated miniplug. Single-side cord entry. Circumaural design; 40-mm drivers with ferrite magnets. Self-adjusting headband. Includes gold-plated phone-plug adapter. Sens 104 dB; imp 40 ohms. 5 oz $50

MDR-55 Open-Air Headphones
6⅝-ft cord with gold-plated miniplug. Single-side cord entry. 30-mm drivers with ferrite magnets. Self-adjusting headband. Includes gold-plated phone-plug adapter. Power handling 100 mW; FR 14 Hz-24 kHz; sens 105 dB; imp 24 ohms. 2 oz $30

MDR-301LP Open-Air Headphones
5-ft OFC cord with gold-plated miniplug. Single-side cord entry. 30-mm drivers with ferrite magnets. Self-adjusting headband. Includes gold-plated phone-plug adapter. Power handling 100 mW; FR 14 Hz-20 kHz; sens 101 dB; imp 30 ohms. 4 oz $25

Groove Series
MDR-ED268LP Earphones
4-ft OFC cord with gold-plated right-angle miniplug. 16-mm drivers with neodymium magnets; evaporated-sapphire diaphragm. Includes carrying pouch. Power handling 50 mW; sens 108 dB; imp 16 ohms $50

MDR-ED238LP Earphones
4-ft OFC cord with gold-plated right-angle miniplug. 16-mm drivers with neodymium magnets. Includes carrying pouch. Power handling 50 mW; FR 8 Hz-23 kHz; sens 108 dB; imp 16 ohms $30

STANTON

PRO 1001 Headphones
Dual earcup controls for adjusting seven key listening parameters. 13 oz $175

DJ PRO 1000 Headphones
10-ft cord with gold-plated phone plug $107

DJ Pro 500/MC Headphones
Dual 12-ft cord with phone plugs. Single-side cord entry. Closed ear design headphone. Includes low-imp dynamic mic. FR 20 Hz-22 kHz. 7 oz $100

DJ Pro 101/STK DJ Headphone
Single-sided headband with removable handle. 4 oz $92

DJ Pro 101/SR DJ Headphone
Single-sided shoulder headphone. Includes removable adjustable shoulder rest. 4 oz $92

DJ Pro 101/HB DJ Headphone
Single-sided headband. 4 oz $92

TECHNICS

RP-F12 Headphones
10-ft OFC cord. 1⅝-in drivers; neodymium magnets. FR 5 Hz-30 kHz $160

The following all have 13-ft Litz cord with 24k-gold-plated plug, 40-mm drivers, bass ports, and reversible earcups for single-ear monitoring, and soft earpads and headband.

RP-DJ1200 DJ Headphones
Neodymium magnets; free-style monitoring with swing arm system. FR 8 Hz-30 kHz. 6 oz $80

RP-F800 Headphones
Neodymium rare-earth magnets; Single-side cord entry. FR 5 Hz-30 kHz. 6 oz $80

RP-HT300 Headphones
Single-side cord entry. Power handling 100 mW; sens 103 dB; imp 22 ohms. 6 oz $45

RP-F200 Headphones
FR 10 Hz-27 kHz. 5 oz $35

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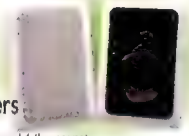
JVC HA-D990 Stereo Headphones

- 24Kt gold-plated headphone plug
- Oxygen-free copper wires for signal cord
- Voice coils with copper clad aluminum wires
- Adjustable headband
- Soft comfortable ear cushions
- FR: 5-27,000Hz, 65 ohms

Orig $59.95 **$49.95**

Parasound CSS260 2-Way In-Wall Loudspeakers



- 6-1/2" Woofer with 1" voice coil and 1 lb. magnet
- Two element 12 dB/octave 2.6kHz crossover
- Polyfoam surround
- 1" Soft dome tweeter

Orig $249 **$129**

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- Calibrated electret condenser microphone
- Sub-harmonic frequency filter
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- Ten bands of equalization • Input level controls

Orig $299 **$179**

NAD 710 Stereo Receiver

Combining NAD's legendary 310 integrated amplifier and the award 410 winning tuner. The amp has 20 ampere peak current capability and is stable down to 2 ohms.

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- FM Tuner with 24 (12AM/12FM) presets
- Hoimgren toroidal transformer
- Preout main injacks
- 25kHz Tuning

Orig $299 **$199**

Studio Tech ZR06 Component Rack

- Smart Spike™ shelf supports
- Adjustable brass carpet spikes
- Rigid steel frame construction
- High quality powder coat paint
- Wood shelves with satin lacquer finish
- Easy assembly, no tools required
- Space between shelves: 8"& 9"
- Dimensions: 19.5"W x 17"D x 46"H

Orig $249 **$199**

JVC HR-S3500U Super VHS Hi-FI Stereo VCR

- Hi-fi VHS stereo with MTS decoder
- VCR Plus+ • Movie advance
- Active video calibration
- Jog/shuttle ondeck
- Shuttle plus • Rec link
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JVC XLM55D "6+1" CD Auto Changer

- 6+1 combination CD changer with 6-disc magazine and auto-loading single tray for playback of 7 discs
- Random access programming of up to 32 "steps" from 7 discs
- JVC Independent suspension system
- 8X Oversampling digital filter

Orig $249 **$159**

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Technics SF-DX6 Home Theater Receiver/ Digital Surround Processor System

- 100W x 6 Home theater mode • Dolby Pro Logic surround
- Dolby 3 Stereo • Dolby digital & DTS digital decoder
- Powerful stereo mode: 100W/ch (20Hz-20kHz, 6Ω, 0.05%THD)
- 2 Optical and 2 coaxial digital inputs
- 6-Channel analog input facilities enable external decoder connection for throughput to a receiver

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JBL L5 Tower Speaker

- 4-Way speaker system
- 350 Watt power handling
- 8" Low frequency driver
- 6-1/2" Midbass driver
- 5" Midrange driver
- 1" Pure titanium high frequency driver
- 90dB Sensitivity
- FR: 35Hz-27kHz
- Black ash wood finish

Orig $799 **$599**

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Separates!!

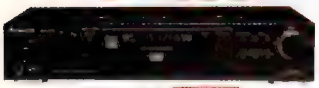
Harman/Kardon PT-2500 Preamp/Tuner Processor

- Dolby Pro-Logic Processing
- 6-Channel preamp outputs
- 5 Audio inputs, including tape and phono
- 3 Composite video inputs, 2 outputs
- 30 Station presets

Harman/Kardon PA5800 Multi-Channel Power Amplifier

- 80 Watts x 5 into 8ohms
- Remote turn-on/off with the PT2500
- Five channel high current amplifier with individual DC power supply for each channel

Orig $1099 **PACKAGE DEAL! $769**



Panasonic DVD-A310 DVD/CD Player

dts

Dolby Digital and DTS compatible DVD player with built-in AC-3 decoder. The new reference standard in performance and value. Features include:

- Advanced Dolby Digital decoder with 6 channel analog outputs
- Toslink and coax digital outputs
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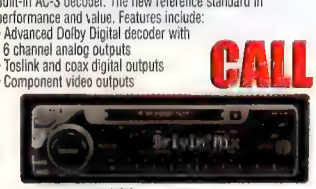

Sony MDX-C7900 MD Receiver

- CD/MD Changer control; Custom File™ memory
- Durable 2-1/2" disc fits in your pocket
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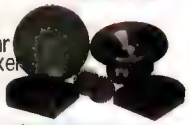
- 10 Second shock resistant memory
- 40W x4 High power; F/R preouts
- Wired remote control

NEW

Phoenix Gold ZCS6 ZEROPOINT 6.5" Car Component Speaker



- 6-1/2" Polypropylene cone and 1-1/2" voice coil
- 1" Co-polymer dome, neodymium tweeter • 180W continuous max. power
- 4 Ohm nominal impedance
- FR: 70Hz-20kHz, ±1dB
- 90dB Sensitivity

Orig $249 **$199**

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Atlantic Technology Systems 250.1 Home Theater System

- The 251.1LR measures 6" W X 13" H X 8.5" D. It contains two 4" polypropylene woofers and a 3/4" dome tweeter. Recommended power from 10-150 watts.
- The 253.1C center channel measures 15" W X 6.75" H X 7.75" D and uses the same drivers as 251.1LR. It also includes midrange and high frequency timbre matching controls.
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- The 262PBM is a 150 watt powered subwoofer in an acoustic suspension cabinet that contains a single 12" driver. Rated response is a conservative 35Hz to 125Hz.

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- 120W Handling
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- Non-resonant fiberglass ABS cabinet
- Bracket included

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JVC TUI500SU Satellite TV System

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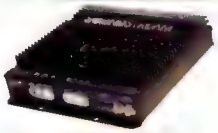

- 50W x 2 rated power at 4 ohm, 12V
- 85W x 2 rated power at 4 ohm, 14.4V
- 300W x 1 Total power output
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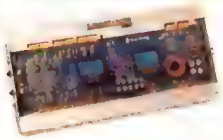
- Onboard variable crossover
- 4-Way circuit protection

Orig $299 **$229**

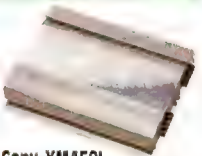
Power Acoustik 2APC-980 Power Amplifier



- 2 Channel 980 watts max
- 360W x 2 RMS @ 2 Ohm
- 200W x 2 RMS @ 4 Ohm
- 980W max bridged • S/N Ratio 98dB
- 1/2/3 Channels possible • THD 0.01%

Orig $599 **CALL**

Sony XM450I 4-Ch. Car Stereo Amp



- 50W x 4, 20- 20kHz @ 0.04% THD
- Crossover: 80Hz 12dB/octave hi/ lo-pass with defeat
- Dimensions: 13-1/8" x 1-15/16" x 9-7/8"

Orig $249 **$149**

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Phono Equipment

Despite the dominance of the CD, vinyl's still alive

Whether you're looking to replace an old turntable or grew up on CDs and are venturing into the phono-equipment market for the first time, you'll find there is still a wide variety of products available. You'll also find that today's turntables, tonearms, and phono cartridges are among the best ever manufactured.

Turntables come in two flavors: direct-drive and belt-drive. The motor of a direct-drive turntable is mounted under the platter, with the shaft of the motor also acting as the platter's spindle. With a belt drive, the motor is mounted to the side of the platter, and some form of belt is looped from the motor pulley to the platter. In high-end models, the belt is looped around the platter itself. In less expensive turntables, the belt is usually looped around a pulley attached to the shaft, beneath the platter, and the whole works is hidden from view within the base.

MUSIC HALL MMF-2 MANUAL TURNTABLE

Most turntables use some form of belt-drive. Belt-drive models tend to offer better sound than direct drives by isolating the motor from the platter. The same technology that makes a good phono cartridge extremely sensitive to vibrations from the record grooves also makes it sensitive to vibrations from the turntable itself, from other gear in the equipment rack, and from the surrounding environment. Buying a well-designed belt-drive turntable eliminates one of the major sources of phono-playback noise.

Like turntables, tonearms come in two forms: pivoted and linear-tracking. Pivoted tonearms track across the record at a continually varying angle. With a linear-tracking arm, the entire pick-up mechanism moves radially across the record, usually hanging from a rod or track mounted to the side of the platter, so it maintains the same angle with the groove from beginning to end. In an ideal world, linear-tracking arms would be best because they have no tracking-angle distortion. But they're complex, and therefore expensive to make, hard to maintain, and subject to their own errors, which can sometimes outweigh the benefits. In most systems, pivoted tonearms are more than acceptable.

There are also two forms of phono cartridge, moving-magnet (MM) and moving-coil (MC). Cartridges read record grooves with a stylus, generally made of diamond, that follows the groove's fluctuations. The motion of the stylus is transformed into an electrical signal that is then passed along to the preamplifier or receiver. All cartridges use both magnets and coils to translate the stylus's motion into electricity, and either of them can move relative to the other to create the necessary voltage. In MM cartridges, the magnets move and the coils are stationary; in MC cartridges, it's the other way around. Because coils are lighter than magnets, they tend to be more responsive to the stylus motion, and therefore MC models tend to produce better sound. But, as with everything else, there is a tradeoff: You can replace the stylus in an MM cartridge yourself; with an MC cartridge, you have to either send it to a dealer or manufacturer for stylus replacement or else replace the whole cartridge.

Most people opt for a self-contained turntable where the tonearm and cartridge come installed and all you have to worry about is replacing the stylus occasionally. The all-in-one approach is certainly convenient but rarely leads to great sound. The first upgrade to consider is a new cartridge. Many manufacturers make cartridges of excellent sound quality for around $100. Choose wisely, and this could be the best $100 you spend on your system.

Inexpensive turntables often come with budget-quality tonearms, so that is the next upgrade to consider, if your turntable allows it. (The arms on inexpensive tables often can't be replaced.) The bearings might not let the arm pivot as smoothly as it should, or the arm itself might vibrate too much, adding resonances to the sound. Also, if a tonearm is too heavy, it won't track record warps well, bearing down instead of riding them. A separate tonearm, however, can cost as much as a turntable.

— Michael Gaughn

Turntables

BASIS

Debut Vacuum MkV Manual Turntable
Reflex platter and clamp with vacuum pump for warped records; oversized, military-spec vacuum-pump tubing; non-contact vacuum seals in blatter bearing. Vacuum level control; vacuum gauge. Includes 40-ft pump tubing $10,600

Debut MkV Manual Turntable
4-point hanging fluid-damped suspension; 2-in-thick acrylic subchassis; matched platter/bearing assembly; 28-lb computer-balanced acrylic/brass platter; damped 8-lb acrylic/brass armboard; aluminum parts machined from aerospace alloy and anodized to military specifications. 85 lb ...$8,200

Model-2001 Manual Turntable
4-point fluid-damped suspension; 1-in-thick acrylic subchassis; matched bearing and platter; outboard AC motor. 33⅓ and 45 rpm. 45 lb ...$3,000

DENON

DP-47F Automatic Turntable
Direct-drive. Quartz-locked motor; auto record size and speed detection. Electronic tonearm control without mechanical contacts $649
DP-23F. As above without auto record size and speed detection $425

DP-7F Automatic Turntable
Direct-drive with quartz-locked motor. P-mount cartridge. Electronic tonearm control without mechanical contacts $325

DP-26F Automatic Turntable
Belt-drive with P-mount MM cartridge. Record-size sensor. Line- or phono-level outputs. Switchable RIAA EQ/amp $150

DUAL

CS455G Automatic Turntable
Belt-drive with magnetic cartridge. Gimbal-mounted pick-up arm bearing; viscosity-damped tonearm lift; vibration-damped aluminum section platter; DC motor with electronic speed control; floating subchassis. 33⅓ and 45 rpm. W&F 0.07% wrms $520
CS450G. As above, semiautomatic $520

CS435s Automatic Turntable
Belt-drive with magnetic cartridge. DC motor with electronic speed control; counter-balanced tonearm; aluminum section platter; floating chassis. 33⅓ and 45 rpm. W&F 0.08% wrms $415

CS415-1s Automatic Turntable
Belt-drive with magnetic cartridge. DC motor with electronic speed control; counter-balanced tubular tonearm; floating feet. W&F 0.1% wrms $335

ESOTERIC SOUND

Aten Transcription Manual Turntable
Belt-drive with curved tonearm, cartridge with LP and 78 styli. Slip mat; plays 16-in broadcast transcriptions; NavCom rumble-reducing dampening; spare-headshell holder. XLR lamp outlet. Variable pitch control. Includes hinged dust cover. 33⅓, 45, 71¼, 76½, 78¼, and 80 rpm. W&F 0.025% wrms; tracking force 1.5 g. 17¾ x 13¾ x 6 in $545

Ramses-II Manual Turntable
Belt-drive with curved tonearm. XLR lamp outlet. Variable from 60 to 105 rpm; spare-headshell holder; stylus lamp; cue lever; vertical/lateral switch for vertically cut records. Includes dust cover. 33⅓, 45, 71¼, 76½, 78¼, and 80 rpm. W&F 0.1% wrms; tracking force 1.25 g. 17¾ x 13¾ x 6 in $485

Ramses Manual Turntable
Belt-drive with curved tonearm, cartridge with LP and 78 styli. XLR lamp outlet. Variable pitch control; stylus lamp; cue lever. 33⅓, 45, 71¼, 76½, 78¼, and 80 rpm. W&F 0.1% wrms; tracking force 1.25 g. 17¾ x 13¾ x 6 in $445

Vintage Semiautomatic Turntable
Belt-drive with straight tonearm. Variable pitch control. Plays at 33⅓, 45, 71¼, 76½, 78¼, and 80 rpm. W&F 0.045% wrms. 17 x 13¾ x 3¾ in $394

RA-6 Semiautomatic Turntable
Belt-drive with curved tonearm. Cue lever. Includes LP and 78 styli. Play speeds 33⅓, 45, 71¼, 76½, 78¼, and 80 rpm. W&F 0.1% wrms; tracking force 2 g. 16½ x 13¾ x 4½ in $285

MUT Semiautomatic Turntable
Belt-drive with straight tonearm. Variable pitch control. Play speeds 33⅓ and 78¼ rpm. W&F 0.1% wrms. 17 x 13¼ x 4 in $215

J. A. MICHELL

The following are belt-drive tables with machined arm boards, inverted oil-pump bearings, and 3-point dynamic suspensions. They play at 33⅓, 45, and 78 rpm with a W&F of 0.05% wrms and rumble of –80 dB. They carry a 5-year warranty.

Orbe Manual Turntable
Papst motor in 6-lb housing; 60-mm-thick concave acrylic platter with threaded record clamp; 2 decoupled acrylic bases with 3 adjustable feet; damped lead-weighted cast-aluminum chassis. Includes QC power supply. 20 x 6 x 16 in; 50 lb $4,200

Gyrodec MKIII Manual Turntable
Two belts; Papst motor; acrylic concave platter with graphite and vinyl; record clamp; acrylic base with 3 adjustable feet; ribbed lead-weighted cast-aluminum chassis; 6 gold-plated brass weights. Clear or black base. 20 x 6 x 16 in; 42 lb ...$1,795
LE Version. As above with gold-anodized motor, arm board, and spring caps; black chassis; clear base $1,995
QC Power Supply. Upgrade power supply, provides quartz-generated 50-Hz sine wave $750

JVC

ALA158BK Automatic Turntable
Straight tonearm and plug-in cartridge. DC servomotor. Cueing control; dust cover $120

KAB ELECTRO ACOUSTICS

KAB Broadcast Standard Manual Turntable
Direct-drive with curved tonearm. Servomotor; gimbal bearings; 20-lb cast-aluminum frame; resonance-damped platter; damped cueing. Variable pitch control; removable headshell; adjustable tonearm height. Play speeds 33⅓, 45, and 78 rpm. W&F 0.025% wrms $595

KAB SLBD78 Semiautomatic Turntable
Belt-drive with straight tonearm. 4-point tonearm bearings. Damped cueing; auto return/shut-off; variable pitch. Includes cartridges for 78s and LPs. 33⅓, 45, and 78 rpm. W&F 0.05% wrms $299

KENWOOD

KD-291RC Semiautomatic Turntable
Belt-drive. DC servomotor. 45-rpm adapter ...$80
KD-492FC. As above with system remote-control compatibility $120

KUZMA

Stabi Reference Manual Turntable
Belt-drive. Two synchronous motors; subchassis suspended from four springs, each with silicon-oil damping; self-centering inverted bearing with ruby-ball one-point contact. Knobs on top of spring towers for subchassis adjustment; adjustable azimuth and vertical tracking angle. Speed accuracy ±0.5%. 5-yr warranty. 20 x 6⅞ x 16 in; 88 lb $5,500

Stabi Manual Turntable
Belt-drive. Medite MDF subchassis suspended from four springs, each enclosed in silicon oil-filled reservoir; solid aluminum platter; solid oak chassis and lid; 5-point-contact low-noise main bearing; external quartz power supply. 4-knob suspension adjustment. PVC record clamp. Speed accuracy ±0.5%. 5-yr warranty. 20 x 7¼ x 16 in; 44 lb $2,400

LINN

Sondek LP12 Manual Turntable
Belt-drive with straight tonearm. Single-point bearing; solid-wood plinth; stainless-steel chassis; suspended subchassis. External power supply extra. Play speeds 33⅓ and 45 rpm. Black ash, walnut, and Afromosia finishes $1,700
Lingo power supply $1,450
Valhalla power supply $450
Basik power supply $180

MUSIC HALL

MMF-2 Manual Turntable
Belt-drive with tonearm and Goldring cartridge. Alloy platter; stainless-steel and bronze-bearing assembly with Teflon base. Adjustable azimuth and vertical tracking angle. Includes 4 spare belts and 45-rpm adapter. Play speeds 33⅓ and 45 rpm. W&F 0.15% wrms; rumble –70 dB; speed accuracy ±0.9%; tracking force 1.7 g. Black. 16⅜ x 12⅝ x 4⅜ in; 15 lb $299

NAD

Model 533 Manual Turntable
Belt-drive and Goldring Elektra cartridge. High-torque synchro motor; one-piece pressure-cast tonearm with miniature ball bearings. 33⅓, 45, and 78 rpm. 17⅜ x 4½ x 14 in; 12 lb $399

ONKYO

CP-1400A Semiautomatic Turntable
Belt-drive with straight tonearm. Die-cast aluminum platter; DC servomotor; 2-speed belt-drive. Auto-cue function. 33⅓ and 45 rpm $199

OPTIMUS BY RADIO SHACK

LAB-1100 Automatic Turntable
Belt-drive with straight tonearm, MM cartridge. DC servomotor; built-in switchable preamp. Removable headshell; front-mounted controls; lighted cue control; auto return/shut-off; hinged dust cover. 33⅓, 45, and 78 rpm. W&F 0.25% wrms; tracking force 2.5-4.5 grams. Black. 14¼ x 3¾ x 13⅞ in; 5 lb $100

OPUS THREE

Continuo Manual Turntable
Concrete base; 3 air-suspension mounting feet. Opus Three Grado cartridge. 33⅓, 45, and 78 rpm. 60 lb $3,295
As above without Grado cartridge. Includes Opus Three Cantus tonearm and mat $2,595
As above without tonearm or cartridge $1,495

PIONEER

PL-990 Automatic Turntable
Belt-drive with straight tonearm and MM cartridge. 2-speed DC servomotor $160

ROTEL

RP 955 Manual Turntable
Belt-drive with tonearm and MM cartridge. DC servomotor; die-cast aluminum platter. 2 RCA phono outputs. Speed control; cue lever; antiskating adjustment. Includes strobe disc. 33⅓, 45, and 78 rpm. W&F 0.03% wrms; tracking force 0.5-3 g. Black. 17 x 5½ x 13¾ in; 17 lb $600

RPM

RPM-2 Manual Turntable
Belt-drive. Aluminum-composite construction; decoupled motor; electronic speed switching; alumi-

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Turntables

num-composite motor base. Play speeds 33⅓ and 45 rpm. 18½ x 4½ x 15 in; 65 lb $5,995
As above, acrylic motor base. 54 lb $4,995

SONY

PSLX350H Semiautomatic Turntable
Belt-drive with S-shaped tonearm and MM cartridge. Full-size aluminum platter. Servo-speed control; pitch control. 33⅓ and 45 rpm. Black. 17¾ x 6¾ x 14⅛ in; 15 lb $250

PS-J11/S Semiautomatic Turntable
Belt-drive with MM cartridge. Design and color match Sony's MHC Series components. 33⅓ and 45 rpm. Silver. 11 x 3¾ x 12⅝ in; 5 lb $120

PSLX200 Semiautomatic Turntable
Belt-drive with static-balance straight tonearm and MM cartridge. Front-mounted controls; dust cover. Play speeds 33⅓ and 78 rpm. Black. 14 x 3¾ x 13⅝ in; 5 lb $120
PS-LX56G. As above, 33⅓ and 45 rpm $120

TEAC

P-595 Semiautomatic Turntable
Belt-drive with straight tonearm and Audio-Technica plug-in cartridge. DC motor. Play speeds 33⅓ and 45 rpm. W&F 0.1% wrms; rumble –55 dB; tonearm length 8.6 in. 17 x 3⅝ x 13¼ in $129

PA-400 Automatic Turntable
Belt-drive; dynamic-balanced straight tonearm; built-in phono preamp; DC servomotor; auto record-size detection. EQ-on/off switch; dust cover. 45-rpm adapter. 33⅓ and 45 rpm. W&F 0.12% wrms; rumble –60 dB; tonearm 8¼ in. 14⅜ x 3⅞ x 14⅜ in $129

TECHNICS

SL-1200 MkII Manual Turntable
Direct-drive with curved tonearm. Quartz-locked drive; gimbal-pivot tonearm; brushless DC motor; antiresonant visco-elastic main base. Adjustable vertical tracking angle; quartz-locked variable ±8% pitch control. 33⅓ and 45 rpm. W&F 0.025% wrms; rumble –78 dB. 17⅞ x 6⅜ x 14¼ in; 24 lb $699

SL-BD20 Semiautomatic Turntable
Belt-drive with straight tonearm. Servomotor; antiresonant and antivibration construction; gimbal-pivot tonearm. 33⅓ and 45 rpm. W&F 0.045% wrms; rumble –70 dB. 17 x 3¾ x 14¾ in; 8 lb $180
SL-BD22K. As above, with illuminated stroboscope; ±6 pitch control $210

THORENS

The following turntables are all belt-driven and have straight tubular tonearms, gimbal suspensions, antiskating controls, and effective tonearm lengths of 9⅛ in.

TD-520/SME 312 Semiautomatic Turntable
SME 312 tonearm. Solid-core chassis; 3-point leaf-spring suspension; frictionless magnetic antiskating. Electronic speed selection; ±6% pitch control; stroboscope; auto shut off. 33⅓, 45, and 78 rpm. Rosewood $5,770
As above with SME 3012R tonearm $4,680

TD-320 MkIII Semiautomatic Turntable
16-pole synchro motor; solid-core chassis; 3-point leaf-spring suspension. Auto shut-off. 33⅓ and 45 rpm. W&F 0.04% wrms. 17⅜ x 6¾ x 13⅞ in . . .$1,080

TD-295 II Manual Turntable
Belt-drive with removable tonearm. Antiskating adjustments; speed control. 33⅓, 45, and 78 rpm. W&F 0.045% wrms; rumble –70 dB; tonearm length 9¼ in. Black. 17½ x 5⅞ x 14⅜ in; 19 lb $999
As above in white, walnut, or mahogany . . .$1,100

TD-318 Semiautomatic Turntable
16-pole synchro motor; solid-core chassis; 3-point leaf-spring suspension. Auto shut-off. 33⅓ and 45 rpm. W&F 0.04% wrms. 17 x 6 x 14 in $925

TD-280 MkIV Semiautomatic Turntable
Stanton 500 cartridge. 24-pole synchro motor; solid-core chassis; spring damping elements in feet. Auto shut-off. 33⅓, 45, and 78 rpm. W&F 0.045% wrms. 17 x 5⅜ x 14 in $540

TD-185 NR Semiautomatic Turntable
TP-20 tonearm and cartridge. Synchro motor. Electronic control and auto-retract/shut off. 33⅓, 45, and 78 rpm $473

TUBE RESEARCH LABS

Purpleheart Manual Turntable
Belt-drive with linear-tracking tonearm. All-air bearing. 33⅓ and 45 rpm. 390 lb $11,000

VERDIER

La Platine Verdier Manual Turntable
Belt-drive. Platter floated by magnets to eliminate rumble; outboard motor. Variable speed adjustment; can mount 2 tonearms. 10-yr warranty $7,900

VPI

TNT Junior Turntable
Belt-drive. 2-in-thick laminated-acrylic chassis; 21-lb stainless-steel isolated motor drive; reflex record clamping; Sorbothane suspension; upgradable to full TNT-3 design. 33 and 45 rpm . . .$2,800
TNT Series 3. As above with isolated-loop 4-pulley drive system; zero-clearance platter bearing; variable-speed power-line conditioner; stainless-steel motor flywheel; aluminum/acrylic/lead platter; 4-independent-coil suspension and control of platter rotation $5,000
TNT Series 4. As above with 30-lb stand-alone flywheel assembly to isolate motor from platter and micro-actuator air suspension $6,400
Aries. Scaled down version of the TNT turntable using the platter, bearing, and motor from the TNT in a compact chassis $2,400

HW-19 Jr. Turntable
Belt-drive. 1-in-thick MDF subchassis; clear acrylic platter; Sorbothane suspension; Pyrothane precision belt. Dust cover. 33⅓ and 45 rpm. Oak, black-oak, or walnut. 21¼ x 16½ x 7 in $650
HW-19 MK-4. As above with 20-lb TNT platter and bearing and TNT suspension $1,850
HW-19 MK-3. As above with stainless-steel/acrylic chassis; 4-point spring suspension; lead-filled acrylic platter; ¼-in-thick dust cover $1,250

WELL TEMPERED LAB

The following include Well Tempered tonearms.

Reference Manual Turntable
Belt-drive with fully damped tonearm. Zero-clearance platter bearing. Adjustable damping. 19 x 7 x 16 in; 70 lb $4,995
Super. As above without synthetic stone base. 19 x 7 x 16 in; 43 lb $3,695
Classic. As above without adjustable damping; 40 lb. 19 x 7 x 16 in; 40 lb $2,795

Record Player Manual Turntable
Belt-drive with damped tonearm. Zero-clearance platter bearing. Play speeds 33⅓ and 45 rpm. 19 x 6 x 16 in; 35 lb $1,695

WILSON BENESCH

ACT 1 Manual Turntable
Belt-drive with carbon-fiber unipivot tonearm and MC cartridge. Carbon-fiber/Nomex 3-point subchassis; AC eddy current (outer-rotor) motor with external power supply. Patented clutch system for non-flutter start-up; carbon-steel/sintured-bronze precision-matched bearing system. Gold-plated outputs. Kinematic location for vertical-tracking, azimuth, and tracking-force calibrations; antiskating adjustment from 0 to 3 g. Includes dust cover. 33⅓ and 45 rpm. W&F 0.025% wrms; rumble –80 dB; speed accuracy 0.1%; tracking force 2 g; tonearm length 9 in. Cherrywood, black anodized-metal, or carbon-fiber finish. 17½ x 6 x 14½ in; 35 lb $5,795
ACT 2. As above with high-performance carbon-fiber tonearm $6,295
Stage-One MC head amp $1,600
Carbon-fiber isolation stand $1,500

Circle Manual Turntable
Belt-drive with carbon-fiber tonearm and fixed MC cartridge. Carbon-fiber suspension; solid-acrylic platter. Adjustable vertical tracking angle, azimuth, and stylus force. Play speeds 33⅓ and 45 rpm. W&F 0.08% wrms; rumble –75 dB; speed accuracy ±0.1%; recommended tracking force 1.8-2.0 g; tonearm length 9¾ in. Black and aluminum. 12 x 6 x 14 in; 16 lb $3,895

Cartridges and Tonearms

AUDIO BY VAN ALSTINE

Longhorn Green Moving-Magnet Cartridge
Internal damping; external stabilization. Output 5.6 mV; FR 10 Hz-55 kHz; ch sep 25 dB; tracking force 1.5 g $99
Replacement stylus $49

AUDIO CRAFT

AC-03 Moving-Coil Phono Cartridge
Elliptical stylus. Stepped-injection-type cantilever; aluminum-alloy neodymium magnet. Output 0.33 mV at 1 kHz; FR 10 Hz-50 kHz; ch sep 28 dB at 1 kHz; tracking force 2.0-2.4 g. Bronze. 9 g . . .$1,850

AC-4400 Tonearm
Changeable wand. Overall length 14¾ in; pivot-to-stylus 275 mm; tracking force 0.5-2.7 g; mounting-hole 1⅜ in $1,800

AC-3300 Tonearm
Straight, changeable wand, for silicon-damped unipivot. Length 13 in; pivot-to-stylus 230 mm; tracking force 0.5-2.7 g; mounting-hole 1⅜ in. Silver . . .$1,500

AUDIO NOTE

IO-2 Moving-Coil Phono Cartridge
Van den Hul 1 stylus. Silver wiring; tapered-titanium cantilever; aluminum-nickel-cobalt magnet. Output 0.05 mV; tracking force 1.5-3.0 g. 18 g $3,000
IO-1. As above, 15 g $2,000

IQ-2 Moving-Magnet Phono Cartridge
Van den Hul stylus. Silver coils and wiring; titanium cantilever. Output 5.5 mV; tracking force ¾-2 g. 6 g $300
IQ-1. As above, Van den Hul 2 stylus $200

AUDIOQUEST

AQ7000Fe5 Moving-Coil Phono Cartridge
Nude line-contact diamond stylus. Single-layer coil;

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5N pure iron core. Output 0.55 mV; tracking force 1.85 g $2,750

PT-8 Tonearm
Damped arm tube; adjustable pivot damping; Pro tonearm cable. Black $750
PT-7. As above with AudioQuest Emerald tonearm cable $625
PT-6. As PT-8, standard tonearm set $495

AUDIO-TECHNICA

AT-OC9 Moving-Coil Phono Cartridge
Tapered alloy-tube cantilever. Output 0.4 mV at 1 kHz, 5 cm/s; FR 15 Hz-50 kHz; ch sep 31 dB at 1 kHz; tracking force 1.25-1.8 g $400

AT440ML Moving-Magnet Phono Cartridge
Micro-line stylus. Output 5 mV at 1 kHz, 5 cm/s; FR 5 Hz-32 kHz; ch sep 30 dB at 1 kHz; tracking force 0.8-1.6 g $219

AT331LP Moving-Magnet Phono Cartridge
Linear-contact stylus. For P-mount or universal tonearm. Tapered alloy-tube cantilever. Output 3 mV at 1 kHz, 5 cm/s; FR 10 Hz-30 kHz; ch sep 31 dB at 1 kHz; tracking force 1.0-1.6 g $149

AT120E/T Moving-Magnet Phono Cartridge
0.3 x 0.7-mil biradial nude diamond stylus. Output 5 mV at 1 kHz, 5 cm/s; FR 15 Hz-25 kHz; ch sep 29 dB at 1 kHz; tracking force 1-1.8 g $109
AT316EP. As above, FR 10 Hz-27 kHz; tracking force 1-1.5 g $109
AT311EP. As above, for P-mount or universal tonearm. FR 15 Hz-27 kHz $89

AT301EP Moving-Magnet Phono Cartridge
0.4 x 0.7-mil biradial nude diamond stylus. For P-mount or universal tonearm. Output 5 mV at 1 kHz, 5 cm/s; FR 15 Hz-25 kHz; ch sep 26 dB at 1 kHz; tracking force 1-1.5 g $79

AT300P Moving-Magnet Phono Cartridge
0.6-mil uniradial nude diamond stylus. Output 5 mV at 1 kHz, 5 cm/s; FR 20 Hz-22 kHz; ch sep 26 dB at 1 kHz; tracking force 1-1.5 g $69

AT71ELC Moving-Magnet Phono Cartridge
0.4 x 0.7-mil biradial nude diamond stylus. Output 3.5 mV at 1 kHz, 5 cm/s; FR 20 Hz-22 kHz; ch sep 22 dB at 1 kHz; tracking force 1-2 g $69

AT70L Moving-Magnet Phono Cartridge
0.6-mil uniradial nude diamond stylus. Output 5 mV at 1 kHz, 5 cm/s; FR 20 Hz-20 kHz; ch sep 20 dB at 1 kHz; tracking force 1.5-2.5 g $59

AT3482H/U Moving-Magnet Phono Cartridge
0.7-mil uniradial nude diamond stylus. Designed for universal mount tonearm. Output 5.0 mV at 1 kHz, 5 cm/s; FR 20 Hz-20 kHz; ch sep 24 dB at 1 kHz; tracking force 1.0-1.5 g $39
AT3482P. As above, for P-mount tonearm $39

CN5625AL Moving-Magnet Phono Cartridge
0.7-mil uniradial nude diamond stylus. Output 4.2 mV at 1 kHz, 5 cm/s; FR 20 Hz-20 kHz; ch sep 20 dB at 1 kHz; tracking force 1.5-3.0 g $29

BENZ MICRO

Retipping and upgrade services are available.

Ruby Moving-Coil Phono Cartridge
Nude diamond stylus. Machined Bruyere-wood body; solid boron-rod cantilever; square ruby plate coil. Output 0.3 mV at 1 kHz; FR 10 Hz-50 kHz; ch sep 40 dB at 1 kHz; tracking force 2-2.5 g. 9 g $3,000
Reference. As above, square pure-iron plate coil. Output 0.4 mV at 1 kHz $2,500
H20. As above, pure-iron cross coil. Output 2 mV (0.9 and 0.4 mV available) $1,200

Glider Moving-Coil Phono Cartridge
Nude diamond stylus. Hand-wound iron cross coil; open free-floating design; solid aluminum base; solid boron-rod cantilever. Output 1 mV at 1 kHz (2 mV available); FR 10 Hz-50 kHz; ch sep 40 dB at 1 kHz; tracking force 2-2.5 g. 7 g $750

MC Gold Moving-Coil Phono Cartridge
0.3 x 0.7-mil elliptical diamond stylus. Aluminum-alloy tube cantilever. Output 0.4 mV at 1 kHz (2 mV available); FR 20 Hz-25 kHz; ch sep 30 dB at 1 kHz; tracking force 1.8-2.2 g. 6 g $350
MC20E II. As above, output 2.5 mV at 1 kHz; FR 15 Hz-40 kHz; ch sep 25 dB at 1 kHz; tracking force 1.7-2.3 g. 4 g $150

DENNESEN

ABLT-1 Tonearm
Straight. Lateral-tracking design; air bearing; gold plating. Adjustable vertical tracking angle; changeable wand $2,000

DENON

DL-160 Moving-Coil Phono Cartridge
Elliptical diamond stylus. Output level high enough for MM phono-preamp input; single-point cantilever suspension; tapered double-construction cantilever. Output 1.6 mV; FR 20 Hz-50 kHz; ch sep 28 dB; tracking force 1.6 g $179
DL-110. As above, cantilever not tapered, single pointed $139

EMINENT TECHNOLOGY

Model 2.5 Tonearm
Straight. Designed for turntable with interchangeable arm board. Air bearing; magnesium arm tube; dynamic fluid damping; decoupled counterweight. Adjustable vertical tracking angle. Includes air pump, line, and filter $2,500

ESOTERIC SOUND

CN-25-78 Moving-Magnet Phono Cartridge
Spherical diamond stylus for 78-rpm discs. Output 6 mV at 1 kHz; FR 30 Hz-15 kHz; ch sep 30 dB at 1 kHz; tracking force 2.0-4.0 g. 6 g $42

GOLDRING

Excel VX Moving-Coil Phono Cartridge
Diamond stylus. Neodymium magnet; silver wiring. Output 0.5 mV; FR 20 Hz-30 kHz ±2dB; ch sep 25 dB at 1 kHz; tracking force 1.7 g. Silver finish with purple-heart hardwood. 9 g $995

Elite Moving-Coil Phono Cartridge
Gyger I linear-contact stylus. Output 0.5 mV; FR 20 Hz-30 kHz ±2 dB; ch sep 25 dB at 1 kHz; tracking force 1.7 g. 6 g $625
Cartridge retip for above $425

Eroica LX Moving-Coil Phono Cartridge
Gyger II linear-contact stylus. Output 0.5 mV; FR 20 Hz-30 kHz ±3 dB; ch sep 25 dB at 1 kHz; tracking force 1.7 g. 6 g $375
Cartridge retip for above $250

Eroica H Moving-Coil Phono Cartridge
Gyger II linear-contact stylus. Output 2.5 mV; FR 20 Hz-22 kHz ±3 dB; ch sep 25 dB at 1 kHz; tracking force 1.7 g. 6 g $325
Cartridge retip for above $215

G 1042 Moving-Magnet Phono Cartridge
Gyper S diamond stylus. Output 6.5 mV; FR 20 Hz-20 kHz ±2 dB; ch sep 25 dB at 1 kHz; tracking force 1.7 g. 6 g $300
D42. Replacement stylus for above $190
G 1022GX. As G 1042 but with Gyper I diamond stylus $225
D22GX. Replacement stylus for above $145
G 1012GX. As G 1042, Gyper II stylus $175
D12GX. Replacement stylus for above $105
G 1006. As G 1042, elliptical diamond stylus ... $125
D06. Replacement stylus for above $75

Elektra Moving-Magnet Phono Cartridge
0.7 x 0.7-mil elliptical diamond stylus. Output 5 mV; FR 20 Hz-20 kHz ±3 dB; ch sep 20 dB at 1 kHz; tracking force 2.0 g. 4 g $80
D152E. Replacement stylus for above $40

Elan Moving-Magnet Phono Cartridge
Spherical diamond stylus. Output 5 mV; FR 20 Hz-20 kHz ±3 dB; ch sep 20 dB at 1 kHz; tracking force 2.0 g. 4 g $60

GRADO LABS

Prestige Silver Moving-Magnet Cartridge
Elliptical diamond stylus. 4-piece OTL cantilever; Ultra-High Purity Long Crystal (UHPLC)-OFC coils. Output 4.5 mV at 1 kHz; FR 10 Hz-60 kHz; ch sep 35 dB at 1 kHz; tracking force 1.5 g. 6 g $150
Prestige Gold. As above, meets higher production test specifications $180

Prestige Blue Moving-Magnet Cartridge
Elliptical diamond stylus. 4-piece OTL cantilever; OFC coils. Output 4.5 mV at 1 kHz; FR 10 Hz-55 kHz; ch sep 30 dB; tracking force 1.5 g. 6 g ... $80
Prestige Red. As above, meets higher production test specifications $110
Prestige Black. As Prestige Blue, 3-piece OTL cantilever. FR 10 Hz-50 kHz $40
Prestige Green. As above, meets higher production test specifications $60

GRADO REFERENCE PRODUCTS

Master Moving-Magnet Phono Cartridge
Elliptical diamond stylus. 5-piece OTL cantilever; Ultra High Purity Long Crystal-OFC coils. Output 4.5 mV at 1 kHz; FR 10 Hz-60 kHz; ch sep 40 dB; tracking force 1.5 g. Wood body. 7 g $800
The Reference. As above with Grado's true elliptical diamond stylus $1,200
Platinum. As Master but with 4-piece OTL cantilever $300
Sonata. As Platinum with nude elliptical diamond stylus $500

GRAHAM ENGINEERING

Model 1.5t/c Tonearm
Straight. Tungsten side weights; arm-tube damping with concentric tubes of aluminum and stainless-steel with energy-absorbing damping bands separating inner and outer tubes; silicon fluid in pivot well for horizontal and vertical damping. SME-compatible mounting; locking adjustments for overhang, azimuth, vertical tracking angle, and tracking force. Includes ceramic arm wand. Matte gold or chrome finish $3,000
Model 1.5t Tonearm. As above with tungsten side weights and without ceramic arm wand. Includes azimuth-alignment box $2,750
Model 1.5. As Model 1.5t/c without ceramic arm wand $2,500

Model 1.5 Basic Tonearm
Straight. Copper internal wire to arm wand; brass sideweights; upgradable to 1.5t/c $1,996

JMAS

MIT-1 Moving-Coil Phono Cartridge
Van den Hul stylus in solid boron cantilever. Tip mass adjusted to compensate for spring-back deformation distortion in LPs. Includes mounting kit and stylus brush. Output 0.25 mV; FR 10 Hz-10 kHz ±1 dB; ch sep 25 dB at 1 kHz; tracking force 2.25-2.5 g. Black. 6 g $750

KAB ELECTRO ACOUSTICS

KSL500 Moving-Magnet Phono Cartridge
2.7-mil conical stylus. For P-mount tonearms and 78s. Output 2 mV/cm/sec $55
KS500-27. As above, not P-mount $45
Custom 2.5-, 3.3-, 3.5-mil elliptical diamond styli for KSL-500 and KS500-27 ..... $89

Cartridges and Tonearms

KUZMA

Stogi Reference Tonearm
Straight. ABEC-7 ball bearings; solid aluminum parts including conical tube. Adjustable azimuth and vertical tracking angle $1,850

Stogi Tonearm
Straight. ABEC-5 ball bearings; Van den Hul wiring; solid aluminum parts. Adjustable azimuth and vertical tracking angle $1,200

LINN

Ekos Tonearm
Dynamically balanced design; temperature-compensated springs; hydraulic lift/lower mechanism; gold connectors. Adjustable spring bias and tracking force. Pivot-to-stylus length 211 mm; recommended cartridge weight 4-9 g $2,595

Klyde Moving-Coil Phono Cartridge
Nude diamond stylus. Gold contacts. Output 0.2 mV; ch sep 30 dB at 1 kHz; tracking force 1.55-1.75 g $1,195

Akito Tonearm
Statically balanced design. Adjustable spring bias; counterweight tracking-force adjustment. Pivot-to-stylus length 211 mm; recommended cartridge weight 2-10 g $850

K9 Moving-Magnet Phono Cartridge
Nude diamond stylus. Metal body; gold contacts. Output 4.5 mV; ch sep 20 dB at 1 kHz; tracking force 1.5-2 g $350

LYRA

Parnassus da capo Titanium Moving-Coil Phono Cartridge
Diamond stylus. Base and body milled from block of solid titanium; diamond-coated ceramic-alloy cantilever. Output.35 mV at 1 kHz; ch sep 35 dB at 1 kHz; tracking force 1.6-1.8 g $3,495

Clavis da capo Moving-Magnet Cartridge
Diamond stylus. Monoblock construction; ceramic-alloy cantilever; direct-flux and dual-disk magnetic circuit; 6N copper-wire coils. Output 0.3 mV at 1 kHz; FR 10 Hz-40 kHz; tracking force 1.5-1.7 g. 10 g $1,895

Lydian Beta Moving-Magnet Cartridge
Diamond stylus. Boron cantilever; neodymium magnet; 6N copper-wire coils; 5N iron pole pieces; wire suspension with dual-damping system. Output 0.3 mV at 1 kHz; FR 10 Hz-40 kHz; ch sep 30 dB at 1 kHz; tracking force 1.8-2 g. 11 g $995

MORCH

DP-6 Tonearm
Curved. 2 pivoted sapphire ball bearings; cueing mechanism; internal silver wiring. 4 interchangeable wands to accommodate different cartridges. 12 in; pivot-to-stylus 227 mm; tracking force 0-3 g; mounting-hole 15/16 in. Silver/gold $1,295
UP-4. As above, unipivot design with concave sapphire bearing damped with silicon fluid $795

NAIM

ARO Tonearm
Single pivot; balanced weight assembly. Removable arm tube; adjustable arm height. Pivot-to-stylus length 230 mm; recommended cartridge weight 5.5-12 g $2,200

OPUS THREE

Cantus Tonearm
Straight. Tangential-tracking; only 30 g of moving parts to minimize feedback. 380 g $995

Opus Three Moving-Magnet Phono Cartridge
Modified Grado Signature 8M cartridge $900

ORTOFON

Moving-Coil Phono Cartridges
MC-7500 Moving-Coil Cartridge
Diamond stylus. Linear-phase technology; tapered aluminum-tube cantilever; carbon-fiber armature; neodymium magnet; pure-titanium cartridge housing; diamond-profile polishing; 8N copper internal-lead wiring. Output 0.13 mV at 1 kHz, 5 cm/s; ch sep 25 dB at 1 kHz; recommended tracking force 2.5 g. 11 g $2,800
T-5000. Matching step-up transformer for the above or MC-5000 .....$2,500

MC-5000 Moving-Coil Cartridge
Diamond stylus. Linear-phase technology; sapphire cantilever; black-sapphire cartridge housing; diamond-profile polishing; 7N copper internal-lead wiring. Output 0.14 mV at 1 kHz, 5 cm/s; ch sep 25 dB at 1 kHz; tracking force 2.5 g. 10 g $2,200

MC-Rohmann Moving-Coil Cartridge
Diamond stylus. Aluminum cantilever and cartridge housing; diamond-profile polishing; 6N copper internal wiring. Output.25 mV at 1 kHz, 5 cm/s; ch sep 25 dB at 1 kHz; tracking force 2.5 g. 9 g $1,600
T-3000. Matching step-up transformer for the above or MC-2000 .....$1,600

MC-2000 MkII Moving-Coil Cartridge
Diamond stylus. Aluminum cantilever; white-sapphire cartridge housing; diamond-profile polishing; 6N copper internal-lead wiring. Output 0.125 mV at 1 kHz, 5 cm/s; ch sep 25 dB at 1 kHz; tracking force 2.2 g. 10 g $1,450

MC-30 Super MkII Moving-Coil Cartridge
Nude diamond stylus. Tapered aluminum cantilever; linear-phase technology; three-faceted rear stylus contact surface; carbon-fiber plate; rubber bearings; damping using pure platinum disc; aluminum cartridge housing with 2 precision extrusions; precision-machined cross-shaped armature. Output 0.2 mV at 1 kHz, 5 cm/s; FR 20 Hz-40 kHz +4, –1 dB; ch sep 25 dB at 1 kHz; tracking force 1.6-2 g. 10 g $850

MC-20 Super MkII Moving-Coil Cartridge
Diamond stylus. Linear-phase technology; aluminum cartridge housing with 2 precision-fit anodized extrusions. Output 0.2 mV at 1 kHz, 5 cm/s; FR 20 Hz-40 kHz +4, –1 dB; ch sep 25 dB at 1 kHz; tracking force 1.6-2 g. 10 g $700

MC-10 Super II Moving-Coil Cartridge
Nude diamond stylus. Linear-phase technology; metal-disc damping. Output 0.2 mV at 1 kHz, 5 cm/s; FR 20 Hz-40 kHz +4, –1 dB; ch sep 25 dB at 1 kHz; tracking force 1.6-2 g. 10 g $525

MC-25FL Moving-Coil Cartridge
Nude, fine-line stylus. Output 0.5 mV; FR 20 Hz-20 kHz ±2 dB; ch sep 25 dB; tracking force 1.8-2.2 g. Aluminum. 11 g $450

X5-MC Moving-Coil Cartridge
Nude stylus. Designed for P-mount tonearm. MM-phono output voltage. Output 0.2 mV at 1 kHz, 5 cm/s; FR 20 Hz-45 kHz +4, –1.5 dB; ch sep 25 dB at 1 kHz; tracking force 2 g. 4 g $300
X3-MC. As above, different nude stylus. FR 20 Hz-40 kHz +4, –1.5 dB $250

See the Directory of Manufacturers (page 233) for contact information to get product literature or to find a local dealer.

X1-MC. As X5-MC, elliptical stylus. FR 20 Hz-30 kHz +4, –1.5 dB; ch sep 22 dB at 1 kHz $135

MC-3 Turbo Moving-Coil Cartridge
Nude diamond stylus. 4 moving coils; samarium-cobalt magnet surrounding coils. Output 3.3 mV at 1 kHz, 5 cm/s; FR 20 Hz-25 kHz +4, –1 dB; ch sep 24 dB at 1 kHz; tracking force 2 g. 4 g $250
MC-1 Turbo. As above, elliptical diamond stylus. FR 20 Hz-22 kHz +4, –1 dB $150

MC-15 Super MKII Moving-Coil Cartridge
Fine-line nude diamond stylus. Output 0.35 mV; FR 20 Hz-20 kHz ±3 dB; ch sep 25 dB; tracking force 2-2.4 g. Noryl plastic. 7 g $225

Moving-Magnet Phono Cartridges
Super OM-30 Moving-Magnet Cartridge
Nude diamond stylus. Magnetic circuitry; cut-out nose for cueing. Output 4 mV at 1 kHz, 5 cm/s; FR 20 Hz-20 kHz +2, –0 dB; ch sep 25 dB at 1 kHz; tracking force 1.25 g. 5 g $250
Super OM-20. As above, nude elliptical diamond stylus. FR 20 Hz-20 kHz +2, –1 dB $175
Super OM-10. As Super OM-30, elliptical stylus upgradable to Super OM-20 or Super OM-30. FR 20 Hz-20 kHz +3, –1 dB; ch sep 22 dB; tracking force 1.5 g $80
OMP-10. As above for P-mount tonearm $80

CC-Night Club E Moving-Magnet Cartridge
Elliptical diamond stylus. Aluminum-tube cantilever; cartridge nose cut-out for cueing. Combination headshell, cartridge, and finger-lift; gold-plated color-coded pins; fluorescent-yellow cantilever tip. Standard mount. Includes extra stylus. Output 6 mV at 1 kHz, 5 cm/s; FR 20 Hz-22 kHz; ch sep 23 dB at 1 kHz; tracking force 3 g. 19 g $190
CC-Night Club S. As above, spherical diamond stylus $180

CC-DJE Moving-Magnet Cartridge
Elliptical diamond stylus. Designed for professional use. Double-tube telescopic clear cantilever with red stylus point; combination headshell, cartridge, and nylon finger-lift. Output 6 mV at 1 kHz, 5 cm/s; FR 20 Hz-22 kHz; ch sep 23 dB at 1 kHz; tracking force 3 g. 19 g $170
CC-DJS. As above with spherical stylus. FR 20 Hz-18 kHz $160
OM-DJE. As CC-DJE, standard mount. 5 g . . .$110
OM-DJS. As CC-DJE, spherical stylus; standard mount. FR 20 Hz-18 kHz. 5 g $100

TM-2OUD Moving-Magnet Cartridge
Fine-line stylus. Output 4 mV at 1 kHz, 5 cm/s; FR 20 Hz-22 kHz; ch sep 25 dB at 1 kHz; tracking force 1.25 g. 6 g $149
TM-14UD. As above with elliptical stylus. Ch sep 22 dB $89
TM-7U. As TM-14UD, FR 20 Hz-20 kHz $60

CC-Pro C+2 Moving-Magnet Cartridge
Spherical diamond stylus. Combination headshell, cartridge, and fingerlift. Includes 2 replacement styli $140
OM-Pro S+2. As above, standard mount $90

OM-Night Club S Moving-Magnet Cartridge
Spherical diamond stylus. Designed for standard-mount tonearm. Cartridge nose cut-out for cueing; aluminum-tube cantilever; gold-plated color-coded pins; fluorescent-yellow cantilever tip. Includes 2-g weight plate and extra stylus. Output 6 mV at 1 kHz; FR 20 Hz-22 kHz; ch sep 23 dB; tracking force 3-5 g $120

OM-Pro Moving-Magnet Cartridge
Spherical diamond stylus. Designed for standard-mount tonearm. Flexible load capacitance; cartridge nose cut-out for cueing; luminous cantilever tip; gold-plated color-coded pins. Includes extra stylus. Output 5 mV at 1 kHz; ch sep 20 dB; tracking force 4 g. 5 g $80
CC-Pro. As above with combination headshell, cartridge, and finger-lift. 16 g $130

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Cartridges and Tonearms

OM-5E Moving-Magnet Cartridge
Elliptical diamond stylus. Output 4 mV at 1 kHz, 5 cm/s; FR 20 Hz-20 kHz +3, –1 dB; ch sep 22 dB at 1 kHz; tracking force 1.75 g. 6 g $55
OMP-5E. As above, for P-mount tonearm $55
OM-3E. As OM-5E, but with lower polish quality on stylus $40
OMP-3E. As OM-3E, for P-mount tonearm ...$40

PICKERING
XSV/5000 Moving-Magnet Phono Cartridge
Stereohedron stylus. Output 3.8 mV; FR 10 Hz-50 kHz; tracking force 0.75-1.5 g. 6 g $381

TL-3S Moving-Magnet Phono Cartridge
Stereohedron stylus. Universal mount. Output 4.4 mV; FR 10 Hz-25 kHz; tracking force 0.75-1.5 g. 6 g $206

XV-15/625 Moving-Magnet Phono Cartridge
Elliptical diamond stylus. FR 10 Hz-25 kHz; tracking force 0.75-1.5 g. 6 g $163

XV-15/150DJP Moving-Magnet Cartridge
Spherical diamond stylus. Designed for professional use. Includes replacement stylus. FR 10 Hz-20 kHz; tracking force 2-4 g. 6 g $160
XV-15/150DJ. As above, no extra stylus $108

XV-15/625 DJP Moving-Magnet Cartridge
Elliptical diamond stylus. Designed for professional use. Includes 2 replacement styli. FR 20 Hz-20 kHz; tracking force 1-4 g $160
XV-15/625 DJ. As above, no extra styli $131

V15DJ-DP Moving-Magnet Phono Cartridge
Spherical diamond stylus. Includes 2 replacement styli. Output 4.4 mV; FR 20 Hz-20 kHz; tracking force 2-5 g. 6 g .....$105/matched pr
V15/DJP. As above, single cartridge $98
V-15/DJ. As above without extra styli $56

TLE Moving-Magnet Phono Cartridge
Elliptical diamond stylus. Output 4.4 mV; FR 10 Hz-20 kHz; tracking force 1-1.5 g. 6 g $84

RPM
RPM2 Tonearm
Unipivot design; decoupled counterweight; sapphire and tungsten bearing mounting directly to turntable. Azimuth, zenith, vertical-tracking-angle, and antiskating adjustments $2,495

SHURE
V15VxMR Audiophile Moving-Magnet Cartridge
Masar polished nude Micro-Ridge diamond stylus. Designed for standard-mount tonearm. Proprietary antishock design and stylus-protection system; die-cast aluminum mounting block. Cartridge-alignment protractor; turntable immobilization wedges. Includes headshell screwdriver and stylus-cleaning brush. Output 3.0 mV at 1 kHz; FR 10 Hz-25 kHz; ch sep 30 dB at 1 kHz; tracking force 1.0 g. Black with burgundy stylus guard, aluminum finished mounting block. 7 g $350

M97xE High Performance Moving-Magnet Cartridge
Polished hyperelliptical diamond stylus. Dynamic stabilizer damper/de-staticizer acts as a miniature shock absorber; side-guard protection system; die-cast aluminum mounting block. Includes headshell screwdriver and stylus-cleaning brush. Output 4.0 mV; FR 20 Hz-22 kHz; ch sep 25 dB; tracking force 0.75-1.25 g. Black with dark blue stylus guard and aluminum-finish mounting block. 7 g $150

M94E Music Lover Moving-Magnet Cartridge
Polished elliptical diamond stylus. For standard-mount tonearm. Low-mass Type I heat-treated tubular aluminum-alloy cantilever. Includes stylus-cleaning brush and slide-on stylus guard. Output 4.0 mV; FR 20 Hz-22 kHz; ch sep 25 dB; tracking force 0.75-1.25 g. Black with violet stylus grip. 7 g $100
MP94E. As above, P-mount design. 6 g $100

M78S Classic Moving-Magnet Cartridge
Polished spherical diamond stylus. For standard-mount tonearm. Wide 2.5-mil-radius stylus for 78-rpm record grooves; low-mass Type I heat-treated tubular aluminum-alloy cantilever; mono operation convertible to stereo. Includes slide-on stylus guard and mounting hardware. Output 4 mV at 1 kHz; tracking force 1.5-3.0 g. Black with dark green stylus grip. 6 g $90

M35S DJ Expert Moving-Magnet Cartridge
Polished spherical diamond stylus. Cutaway-grip design for stylus visibility; low-mass Type I wide-diameter heat-treated tubular aluminum-alloy cantilever; high-strength stylus assembly for dependable back-cueing. Includes slide-on stylus guard and mounting hardware. Output 5.0 mV; FR 20 Hz-20 kHz; ch sep 20 dB; tracking force 3-5 g. Black with chartreuse stylus grip. 6 g $80

SC35C Standard DJ Moving-Magnet Cartridge
Spherical diamond stylus. For standard-mount tonearm. Cutaway grip design for stylus visibility; low mass Type I wide-diameter heat-treated tubular aluminum-alloy cantilever. Fluorescent orange dot to spot the stylus tip. Includes slide-on stylus guard, mounting hardware. Output 5 mV at 1 kHz; FR 20 Hz-20 kHz; ch sep 20 dB at 1 kHz; tracking force 4-5 g. Black with light blue stylus grip. 6 g $60

M92E Versatility Moving-Magnet Cartridge
Polished biradial diamond stylus. For P-mount tonearm. Low-mass Type I heat-treated tubular aluminum-alloy cantilever. P-mount convertible to ½-inch standard mount. Includes standard-mount adapter, slide-on stylus guard. Output 5 mV at 1 kHz; FR 20 Hz-18 kHz; ch sep 20 dB at 1 kHz; tracking force 0.75-1.5 g. Black with red stylus grip. 7 g $35

M70BX Value Moving-Magnet Cartridge
Polished spherical diamond stylus. For standard-mount tonearm. Tubular aluminum cantilever. Includes slide-on stylus guard and mounting hardware. Output 5 mV at 1 kHz; FR 20 Hz-18 kHz; ch sep 20 dB at 1 kHz; tracking force 1.5-3.0 g. Black with beige stylus grip. 6 g $25

STANTON
Collector's Series 100 Moving-Magnet Cartridge
Diamond stylus. Sapphire-coated cantilever. Output 0.76 mV/cm/sec; ch sep 35 dB. 6 g $345

Groovemaster AL-1 Limited Edition Moving-Magnet Cartridge
Polished spherical stylus. Includes individual calibration document. Output 7.0 mV; FR 20 Hz-20 kHz; tracking force 2-5 g. 18 g $266

Shure M94E Music Lover phono cartridge

Groovemaster AL-MP. As above, 2 matched cartridges $280
Groovemaster AL-1. As AL-1 Limited Edition without individual calibration document $221
Groovemaster EL-1. As above but with an extra stylus $244
Groovemaster EL-MP. As above, 2 matched cartridges $305
Groovemaster EL. As EL-1, no extra stylus ... $169

Trackmaster II-EL-1 Moving-Magnet Cartridge
0.4 x 0.7-mil elliptical diamond stylus. Includes extra stylus. Output 5.2 mV; FR 20 Hz-20 kHz; tracking force 2-5 g. 18 g $221
Trackmaster II-CL-MP. As above, 2 matched cartridges $230
Trackmaster II-EL. Same as Trackmaster II-EL-1, no extra stylus $155

Model 881 MkIIs Moving-Magnet Cartridge
Diamond stylus. Samarium-cobalt magnet. Output 0.9 mV/cm/sec; ch sep 35 dB. 6 g $200

Trackmaster II-AL-1 Moving-Magnet Cartridge
Spherical diamond stylus. Designed for scratch-mixing. One extra stylus. Output 5.2 mV; FR 20 Hz-20 kHz; tracking force 2-5 g. 18 g $191
Trackmaster II-AL-MP. As above, 2 matched cartridges $250
Trackmaster II-AL. Same as Trackmaster II-AL-1, no extra stylus $139

Model 680EL-MP Moving-Magnet Cartridge
Elliptical diamond stylus. Designed for scratch-mixing and back-cueing. Aluminum-alloy cantilever. Extra stylus. Output 1.1 mV/cm/sec; FR 20 Hz-18 kHz; tracking force 3.5-4 g. 6 g ..... $189/matched pr
Model 680EL. As above, but with tracking force of 2-5 g ..... $147/matched pr

Model 681EEE MkIII Moving-Magnet Cartridge
Diamond stylus $147

Discmaster AL Moving-Magnet Cartridge
Polished spherical stylus. Output 5.0 mV; FR 20 Hz-17 kHz; tracking force 2-5 g. 19 g $95

SYMPHONIC LINE
RG 8 Gold Moving-Coil Phono Cartridge
Gold wiring. Output 0.44 mV at 1 kHz; ch sep 40 dB at 1 kHz; tracking force 1.5 g $5,000

TRIPLANAR
Model V Ultimate Tonearm
Straight. Discovery wire; silicon-fluid damping. Adjustable azimuth; vertical tracking angle adjustable during play. 12 in; pivot-to-stylus 250 mm; tracking force 4-25 g. Black-anodized aluminum ... $2,550
As above with XLR output $2,575
Model IVi . As Model V, plain aluminum ... $2,495
As above with XLR output $2,515

Triplanar III Tonearm Upgrade Kit
Conversion to Model V $590
Conversion to Model IVi $530

VPI
JMW-10 Tonearm
Straight, unipivot; vernier-dial vertical-tracking adjustment during play; cartridge and counterweight attachable. Overall length 10 in $2,300
JMW-12. As above with 12-in tonearm $2,800

WELL TEMPERED LAB
Reference Tonearm
Straight. Proprietary fully damped arm. Adjustable damping. Pivot-to-stylus 230 mm $1,795
Classic. As above, no adjustable damping ... $1,095

Record Player Tonearm
Straight. Fully damped arm. Pivot-to-stylus length 230 mm $795

CONTACTS

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126, 127	Definitive Technology	www.definitivetech.com	410-363-7148
115, 116-117	Energy Loudspeakers	www.energy-speakers.com	416-321-1800
45	Energy Star		888-782-7937
9	Image Entertainment	www.image-entertainment.com	818-407-9100
217	J&R Music World	www.jandr.com	800-221-8180
54-57	JVC	www.jvc-america.com	800-526-5308
219	JVC Musical Industries	www.jvcmusic.com	213-878-0101
49	Kenwood	www.kenwoodusa.com	800-536-9663
30	Kimber Kable	www.kimber.com	801-621-5530
129	Klipsch	www.klipsch.com	800-554-7724
125	Legacy Audio	www.legacy-audio.com	800-283-4644
101	Lexicon	www.lexicon.com	781-280-0300
112	M&K Sound	www.mksound	310-204-2854
111	Maxell	gordont@maxell.com	201-794-5912
143	Monitor Audio	www.monitoraudio.com	905-428-2800
91	NAD	www.nadelectronics.com	800-263-4641
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250 Crossways Park Dr.
Woodbury, NY 11797
516-496-3400
www.infinitysystems.com

Interactive Labs
27 Industrial Blvd.
Medford, NY 11763
800-977-4888
www.ilab.com

Directory of Manufacturers

J

Jackson
4524 N. 35th Pl.
Phoenix, AZ 85018
602-956-7473

J. A. Michell (see **Audiolab**)

Jamo
1177 Corporate Grove Dr.
Buffalo Grove, IL 60089
847-465-0005
www.jamospeakers.com

Janis
2889 Roebling Ave.
Bronx, NY 10461
718-892-7419

JBL
250 Crossways Park Dr.
Woodbury, NY 11797
800-336-4525
www.jbl.com

Jeff Rowland Design Group
P.O. Box 7231
Colorado Springs, CO 80933
719-473-1181
www.jeffrowland.com

Jena Labs
P.O. Box 556
Lake Oswego, OR 97034
503-639-7551

Jensen (see **Recoton**)

JMAS (see **Janis**)

Jolida
10820 Guilford Rd.
Annapolis Junction, MD 20701
301-953-2014

Joseph Audio
2 Pineridge Rd.
White Plains, NY 10603
800-474-4434
www.josephaudio.com

Joule Electra
222 Post Oak Lane
North Augusta, SC 29841
803-279-6959

JPW (see **Sound Organisation**)

JRM Engineering
3716 Broadway N.E.
Knoxville, TN 37917-3120
423-688-6501

JS Audio
643 Speedwell Ave.
Morris Plains, NJ 07950
973-292-2799

JVC
1700 Valley Rd.
Wayne, NJ 07470
800-526-5308
www.jvc-america.com

K

KAB Electro Acoustics
P.O. Box 2922
Plainfield, NJ 07062
908-754-1479
www.kabusa.com

KEF
10 Timber Lane
Marlboro, NJ 07746
732-683-2356
www.adcom.com

Kenwood
P.O. Box 22745
Long Beach, CA 90801
800-536-9663
www.kenwoodusa.com

Kimber Kable
2752 S. 1900 W.
Ogden, UT 84401
801-621-5530
www.kimber.com

Kinergetics
4260 Charter St.
Vernon, CA 90058
213-582-9349

Kinetic Audio
P.O. Box 215
Arlington Heights, IL 60006
847-254-6556

KLH
11131 Dora St.
Sun Valley, CA 91352
818-767-2843

Klipsch
8900 Keystone Crossing, Suite 1220
Indianapolis, IN 46240
800-554-7724
www.klipsch.com

Kontak (see **Sound Organisation**)

Kort
5157 N. Idlewild Ave.
Whitefish Bay, WI 53217-5654
414-962-9076

Koss
4129 N. Port Washington Ave.
Milwaukee, WI 53212-1052
800-872-5677
www.koss.com

Krell
45 Connair Rd.
Orange, CT 06477-3650
203-799-9954

Kustom
4940 Delhi Pike
Cincinatti, OH 45238
888-458-7866
www.kustom.com

Kuzma (see **Muse**)

L

L.A. Rocker (see **Owi**)

The Last Factory
2015 Research Dr.
Livermore, CA 94550-3803
925-449-9449

LAT International
317 Provincetown Rd.
Cherry Hill, NJ 08034
800-321-2108
www.lat-intl.com

Legacy Audio
3021 Sangamon Ave.
Springfield, IL 62702
800-283-4644
www.legacy-audio.com

Leslie Dame Enterprises
111-20 73rd Ave.
Forest Hills, NY 11375
718-261-4919

Lexicon
3 Oak Park
Bedford, MA 01730-1441
781-280-0300
www.lexicon.com

Lindsay Audiophile
(see **The Last Factory**)

Linn
4540 Southside Blvd.
Jacksonville, FL 32216
904-645-5242

Loran
2715 Pennsylvania Ave. W.
Warren, PA 16365
814-726-4010
www.loranger-mfg.com

Lorentz Design
P.O. Box 277
Lanesboro, MN 55949
800-933-0403
www.desertwebdesign.com/
cubehome.htm

Lovan (see **Avlar Research Technology**)

Luxman
915 Washington Ave. S.
Minneapolis, MN 55415-1245
612-333-1150

Lyra (see **A.R.T.**)

M

Mach 1 Acoustics
57 Stiles Farm Rd.
Wilton, NH 03086
603-654-9826

Madison Fielding
107 N. Main St.
Port Chester, NY 10573
914-939-4600

Magnepan
1645 Ninth St.
White Bear Lake, MN 55110
800-474-1946
www.magnepan.com

Magnum Dynalab
8 Strathearn Ave., #9
Brampton, Ontario L6T 4L9
905-791-5888
www.magnumdynalab.com

M&K Sound
10391 Jefferson Blvd.
Culver City, CA 90232
310-204-2854
www.mksound.com

Marantz
440 Medinah Rd.
Roselle, IL 60172
630-307-3100
www.marantzamerica.com

Marchand
P.O. Box 473
Webster, NY 14580
716-872-0980
www.marchandelec.com

Mark Levinson (see **Proceed**)

Martin-Logan
2001 Delaware St.
Lawrence, KS 66046
913-749-0133
www.martinlogan.com

Maxell
22-08 Rt. 208
Fair Lawn, NJ 07410
201-794-5900
www.maxell.com

MBL
8730 E. Via de la Luna, #13
Scottsdale, AZ 85258
602-991-8001
www.mbl-hifi.com

McIntosh
661 W. Redondo Beach Blvd.
Gardena, CA 90247
310-327-9107

Meridian
3800 Camp Creek Pky., Bldg. 2400
Atlanta, GA 30331
404-344-7111
www.meridian-audio.com

Merlin
4705 S. Main St., Box 146
Hemlock, NY 14466
716-367-2390
www.merlinmusic.com

Merrill Audio
2125 Central Ave.
Memphis, TN 38128
901-272-1410

Millennium
P.O. Box 8359
Incline Village, NV 89452-8359
888-551-6789
www.5point1.com

Mirage
3641 McNicoll Ave.
Scarborough, Ontario M1X 1G5
416-321-1800
www.miragespeakers.com

Mission
222 New Rd.
Parsippany, NJ 07054
973-575-7810
www.mission.co.uk

Mistral (see **Sound Organisation**)

MIT
13620 Lincoln Way, #320
Auburn, CA 95603
916-888-0394
www.mitcables.com

Mitsubishi
9351 Jeronimo Ave.
Irvine, CA 92618-1904
800-332-2119
www.mitsubishi-tv.com

Mogami
P.O. Box 2027
Culver City, CA 90230
800-800-6608
www.mars-cam.com

Monarchy Audio
383 Allerton Ave.
South San Francisco,
CA 94080-4816
650-873-3055

Monitor Audio
902 McKay Rd., #4
Pickering, Ontario L1W 3X8
905-428-2800
www.monitoraudio.com

Monster Cable
455 Valley Dr.
Brisbane, CA 94005
415-840-2000
www.monstercable.com

Monster Sound
(see **Monster Cable**)

Morch (see **Audio Advancements**)

Morel
414 Harvard St.
Brookline, MA 02146
617-277-6663
www.gis.net/~morelusa

MSB Technology
14251 Pescadero Rd.
La Honda, CA 94020
415-747-0271
www.msbtech.com

MTX
4545 E. Baseline Rd.
Phoenix, AZ 85040
602-438-4545
www.mtxaudio.com

Muse
P.O. Box 2198
Garden Grove, CA 92642-2198
714-554-8200

Directory of Manufacturers

Museatex (see **a/d/s/**)

Musical Concepts
49 Jason Court
St. Charles, MO 63304
314-926-9266
www.musicaldesign.com

Musical Design
49 Jason Court
St. Charles, MO 63304
314-275-7162

Music Hall (see **Creek**)

Myryad (see **Ruark**)

N

NAD
6 Merchant St.
Sharon, MA 02067
800-263-4641
www.nadelectronics.com

Naim
2702 W. Touhy Ave.
Chicago, IL 60645
773-338-6262
www.naimusa.com

Nakamichi
955 Francisco St.
Torrance, CA 90502
310-538-8150
www.nakamichiusa.com

The Natural Chord
(see **Harmonic Precision**)

NCT Audio Products
One Dock St., Suite 300
Stamford, CT 06902
800-278-3526
www.gekkoaudio.com

N.E.A.R.
12 Foss Rd.
Lewiston, ME 04240
207-795-0609
www.nearspeakers.com

Newform Research
P.O. Box 475
Midland, Ontario L4R 4L3
705-835-9000
www.barint.on.ca/newform

Newpoint
6370 Nancy Ridge Dr.
San Diego, CA 92121
800-639-7646
www.newpoint.com

NHT
535 Getty Ct.
Benicia, CA 94510
800-648-9993
www.nhthifi.com

Niles Audio
12331 S.W. 130 St.
Miami, FL 33186
800-289-4434
www.nilesaudio.com

Nitty Gritty
4650 Arrow Hwy., #F4
Montclair, CA 91763
909-625-5525
www.nittygrittyinc.com

Noise Cancellation Technology
One Dock St., Suite 300
Stamford, CT 06902
800-278-3526
www.nct-active.com

Nordost
420 Franklin St.
Framingham, MA 01702
508-879-1242
www.nordost.com

NSM Loudspeakers
P.O. Box 326
Garden City, NY 11530-0326
516-486-8285
www.nsmaudio.com

NuReality
2907 Daimler St.
Santa Ana, CA 92705
949-442-1080
www.nureality.com

NVA
2813 Agricola St.
Halifax, Nova Scotia B0N 250
902-488-7325
www.aim.ns.ca/clients/peak

O

Octave Research
183-08 Camden Ave.
St. Albans, NY 11412
718-454-5739

Odeon (see **Accuphase**)

Odyssey (see **Symphonic Line**)

OEM Systems
740 Freeport, Suite 106
Sparks, NV 89431
702-355-0405

Ohm Acoustics
241 Taaffe Pl.
Brooklyn, NY 11205-4303
800-783-1553
www.ohmspeaker.com

OmniMount
8201 S. 48th St.
Phoenix, AZ 85044-5355
602-829-8000
www.omnimount.com

Onix (see **DPA Digital**)

Onkyo
200 Williams Dr.
Ramsey, NJ 07446
201-825-7950
www.onkyo.co.jp

Optimus (see **Radio Shack**)

Opus Three (see **Art Audio**)

Ortofon
63 Mall Dr.
Commack, NY 11725
516-543-6950

Osiris Audionics
18 20th St., Sunset Industrial Park
Brooklyn, NY 11232
718-499-8826
www.osiris-audionics.com

Otari
378 Vintage Park Dr.
Foster City, CA 94404
650-341-5900
www.otari

Owi
1160 Mahalo Pl.
Compton, CA 90220-5443
310-638-4732
www.owi-inc.com

P

PAC
P.O. Box 248
Oak Ridge, NC 27310-0248
910-643-9796
idt.net/~idos

Panamax
150 Mitchell Blvd.
San Rafael, CA 94903
800-472-5555
www.panamax.com

Panasonic
One Panasonic Way
Secaucus, NJ 07094
800-222-4213
www.panasonic.com

PanaVise
7540 Colbert Dr.
Reno, NV 89511-1225
702-850-2900
www.panavise.com

Papworth (see **Taurus Audio**)

Paradigm
MPO Box 2410
Niagara Falls, NY 14302
905-632-0180
www.paradigm.ca

Paradigm Reference
(see **Paradigm**)

Parasound
950 Battery St.
San Francisco, CA 94111
415-397-7100
www.parasound.com

Parsec (see **Recoton**)

pARTicular Contemporary Design
1888 Golden Gate Ave., Suite 36
San Francisco, CA 94115
415-777-7725
www.particular.com

Pass Laboratories
24449 Foresthill Rd.
Foresthill, CA 95631
530-367-3690
www.passlabs.com

Pegasus Audio
15815 Frederick Rd.
Rockville, MD 20855-2219
301-840-0747

P.E.L. Concept
9998 Lajeunesse
Montreal, Quebec H3L 2E1
514-384-3737

Per Madsen Design
P.O. Box 882464
San Francisco, CA 94188
415-882-4883

Perreaux (see **Arcam**)

Pfantone
3300 Washington St.
Waukegan, IL 60085
800-323-9446

Phase Technology
6400 Youngerman Circle
Jacksonville, FL 32244
888-742-7385
www.phasetech.com

Philips (see **Philips Magnavox**)

Philips Magnavox
64 Perimeter Center E.
Atlanta, GA 30346
800-531-0039
www.philipsmagnavox.com

Phoenix Gold
P.O. Box 83189
Portland, OR 97283
503-288-2008
www.carverpro.com

PhyZics
2680 Post Oak Ct. N.E.
Marietta, GA 30062
777-977-5289

Pickering
101 Sunnyside Blvd.
Plainview, NY 11803
516-349-0200
www.stantonmagnetics.com

Pink Triangle
(see **Wilson Benesch**)

Pinnacle
101 Commercial St.
Plainview, NY 11803
800-346-2863
www.pinnacle-speakers.com

Pioneer
2265 E. 220th St.
Long Beach, CA 90810
800-746-6337
www.pioneerelectronics.com

Pioneer Electronics Technology
1800 W. Holt Ave.
Pomona, CA 91768
800-745-3271

Platinum Audio
250 Commercial St., #4002
Manchester, NH 03101
603-647-7586
www.platinumaudio.com

PMC
P.O. Box 2170, 677 Neal Dr.
Peterborough, Ontario K9J 7Y4
705-742-5325
www.bryston.ca

Polk Audio
5601 Metro Dr.
Baltimore, MD 21215
800-377-7655
www.polkaudio.com

Poly Crystal (see **Audio Synthesis**)

Polyfusion Audio
30 Ward Rd.
Lancaster, NY 14086
www.polyfusionaudio.com

Posh
7865 N.E. Day Rd. W., Bldg. C
Bainbridge Island, WA 98110
206-842-0475

Power Modules
479 East St.
Pittsford, NY 14534
716-586-0740
powermodules.com

Premier (see **Paradigm**)

Prism (see **Tara Labs**)

Prisma (see **Audiolab**)

ProAc
112 Swanhill Ct.
Baltimore, MD 21208
410-486-5975

Proceed
P.O. Box 781
Middletown, CT 06457
860-346-0896
www.madrigal.com

Professional Technologies
5433 Lowell Rd.
Rome, NY 13440
315-337-4156
www.borg.com/~protec15

Progressive Structures
2890 Skyline Dr.
St. Paul, MN 55121
612-452-7099

ProLine (see **Bib**)

ProScan (see **RCA**)

Proton
13855 Struikman Rd.
Cerritos, CA 90703-1031
310-404-2222

Directory of Manufacturers

PSB
6 Merchant St.
Sharon, MA 02067
888-772-0000
www.psbspeakers.com

PSE
9755 Hamilton Rd.
Eden Prairie, MN 55344
612-943-1677
www.pse.com

Q

Quadrature
3310 Monier Circle, Unit 8
Rancho Cordova, CA 95670
916-852-7791

Quanta Technologies
(see **Pegasus Audio**)

Quasar (see **Panasonic**)

Quickline
518 Palo Alto Dr.
Vancouver, WA 98661
360-695-4144

Quicksilver Audio
5635 Riggins Ct., #15
Reno, NV 89502
702-825-1514
www.quicksilveraudio.com

R

Radio Shack
700 One Tandy Center
Ft. Worth, TX 76102
817-390-3011
www.radioshack.com

Rane
10802 47th Ave. W.
Mukilteo, WA 98275-5098
425-355-6000
www.rane.com

RBH
967 N. McCormick Way
Layton, UT 84041
801-543-2200
www.rbhsound.com

RCA
Thomson Consumer Electronics
10330 N. Meridian
Indianapolis, IN 46290-1024
800-336-1900
www.rca.com

RCM Akustik (see **Amphion**)

Recoton
2950 Lake Emma Rd.
Lake Mary, FL 32746
800-732-6866
www.recoton.com

Reference Music Systems
(see **Art Audio**)

Renaissance (see **Morel**)

Reuben Guss Enterprises
215 W. 92nd St., Suite 7B
New York, NY 10025-7444
212-580-7401

Revox
4300 W. North Ave.
Stone Park, IL 60165
708-343-1524
www.revox.com

RF-Link Technology
411 Amapola Ave.
Torrance, CA 90501
310-787-2328
www.rflinktech.com

Roberts Architectural
3325 E. Miraloma Ave., Suite 127
Anaheim, CA 92806-1925
714-792-0339

Rock Solid Sounds
54 Concord St.
North Reading, MA 01864-2699
978-664-3406
www.bwspeakers.com

Rockustics
15400 E. Batavia Dr.
Aurora, CO 80011
800-875-1765

Rohrer Acoustic Design
P.O. Box 4051
Frederick, MD 21705
301-695-4918

Rossman Audio
597 W. Hillside Ave.
State College, PA 16803-1509
814-234-2044

Rotel
54 Concord St.
North Reading, MA 01864-2699
978-664-3820
www.rotel.com

RPM (see **A.R.T.**)

RSC (see **Tara Labs**)

Ruark
P.O. Box 381
Highland Lakes, NJ 07422-0381
973-764-8900
www.audioinflux.com

Russound
5 Forbes Rd.
Newmarket, NH 03857
603-659-5170

S

Salamander Designs
30 Arbor St.
Hartford, CT 06106
860-313-0525
www.mander.com

Samsung
105 Challenger Rd.
Ridgefield Park, NJ 07660
800-726-7864
www.sosimple.com

Sandbags (see
NSM Loudspeakers)

Sanus Systems
619 W. Country Rd. E.
St. Paul, MN 55126
800-359-5520
www.sanus.com

Sanyo
21605 Plummer St.
Chatsworth, CA 91311
www.sanyo.com

Sauder Woodworking
502 Middle St.
Archbold, OH 43502
800-537-8560

Scan American
P.O. Box 145
Southport, CT 06490
203-426-6833

Sennheiser
One Enterprise Dr., P.O. Box 987
Old Lyme, CT 06371
860-434-9190
www.sennheiserusa.com

Shahinian
33 A & B Cedarhurst Ave.
Medford, NY 11763
516-736-0033

Sharp
Sharp Plaza
Mahwah, NJ 07430-2135
800-237-4277
www.sharp-usa.com

Sherwood
14830 Alondra Blvd.
La Mirada, CA 90638
800-962-3203
www.sherwoodusa.com

Shure
222 Hartrey Ave.
Evanston, IL 60202-3696
800-257-4873
www.shure.com

Signal Guard (see **Audio Synthesis**)

Signature Technologies
P.O. Box 090049
Milwaukee, WI 53209
414-438-1849
www.signaturetech.com

Signet
25 Esna Park Dr.
Markham, Ontario L3R 1C9
905-474-9129

SigTech
95 Fulkerson St.
Cambridge, MA 02141
617-491-8890
www.realspace.com/sigtech

Sima Products
140 Pennsylvania Ave., Bldg. #5
Oakmont, PA 15139
800-345-7462
simacorp.com

SimplyPhysics
15219 Stuebner Airline Dr., Suite 32
Houston, TX 77069
281-537-5083

Snell
143 Essex St.
Haverhill, MA 01832
978-373-6114
www.snellacoustics.com

Sonance
961 Calle Negocio
San Clemente, CA 92673-6202
800-582-7777
www.sonance.com

Sonax
P.O. Box 1078
Osoyoos, British Columbia V0H 1V0
800-668-9002
sonax@sonax.com

Sonic Frontiers
2790 Brighton Rd.
Oakville, Ontario L6H 5T4
905-829-3838
www.sonicfrontiers.com

Sonic Gem
P.O. Box 2661
Huntington Station, NY 11746
516-543-5347
home.earthlink.net/~mastercrft

Sonographe (see **Conrad-Johnson**)

Sony
One Sony Dr.
Park Ridge, NJ 07656
800-222-7669
www.sel.sony.com

Soricé
P.O. Box 747
Nutley, NJ 07110
800-432-8005
www.sorice.com

Sound Anchors
2835 Kirby Ave., Unit #110
Palm Bay, FL 32905
407-724-1237

Sound Concepts
27 Newell Rd.
Brookline, MA 02146
617-566-0110

Sound Dynamics (see **Energy**)

Sound Lab
P.O. Box 981508
Park City, UT 84098-1508
801-658-1341
www.soundlab-speakers.com

Soundolier
1859 Intertech Dr.
Fenton, MO 63026
314-349-3110
www.atlas-soundolier.com

Sound Organisation
5120 Rexton Lane
Dallas, TX 75214
214-692-6490
www.soundorg.com

Sound Quest
2950 Lake Emma Rd.
Lake Mary, FL 32746
800-457-4579
www.recoton.com

Soundstream
120 Blue Ravine Rd.
Folsom, CA 95630
916-351-1288
www.soundstream.com

Sound Valves
185 N. Yale Ave.
Columbus, OH 43222-1146
614-279-2383
www.soundvalves.com

Source Components
701 Nutmeg Rd. N., #2
South Windsor, CT 06074
860-528-2892
www.sceaudio.com

Speaker Art
5824 Cochran Dr.
Bakersfield, CA 93309
805-322-5329

SpeakerCraft
1650 Seventh St.
Riverside, CA 92507
800-448-0976

Speakerlab
6220 Roosevelt Way N.E.
Seattle, WA 98115
206-523-2269
www.speakerlab.com

SPL (see **beyerdynamic**)

Standesign
1723 Adams St. N.E.
Minneapolis, MN 55413-1411
612-706-9250

Stanton
101 Sunnyside Blvd.
Plainview, NY 11803-1511
516-349-0200
www.stantonmagnetics.com

Status Acoustics (see **RBH**)

StereoStone
7427 Varna Ave.
North Hollywood, CA 91605
909-244-9409
www.stereostoneinc.com

Stinger
13160 56th Ct., Suite 502-508
Clearwater, FL 33760
813-572-9255
www.stinger-aamp.com

Directory of Manufacturers

Straight Wire
1909 Harrison St., #208
Hollywood, FL 33020
954-925-2470
www.straightwire.com

Sunfire
P.O. Box 1589
Snohomish, WA 98290
425-335-4748
www.sunfire.com

Sutherland
P.O. Box 1363
Lawrence, KS 66044
785-841-3355

Symphonic Line
6235 Coffman Rd.
Indianapolis, IN 46268
317-299-5578
www.odysseyaudio.com

T

Taddeo
2604 Elmwood Ave., Suite 105
Rochester, NY 14618
716-473-9076

Tandberg
8816 Patton Rd.
Glenside, PA 19038
215-839-9944
www.jason-scott.com

Tannoy
300 Gage Ave., Suite #1
Kitchener, Ontario N2M 2C8
519-745-1158
www.tannoy.com

Taperwire
6114 San Fernando Rd.
Glendale, CA 91201
818-500-0116

Tara Labs
2245 Ashland St.
Ashland, OR 97520
541-488-6465
www.taralabs.com

Taurus Audio
5680 Thornton Ave.
Newark, CA 94560
510-713-9893

TDK
12 Harbor Park Dr.
Port Washington, NY 11050
800-835-8273
www.tdk.com

TDL Electronics (see **OmniMount**)

Teac
7733 Telegraph Rd.
Montebello, CA 90640
323-726-0303
www.teac.com

Technics (see **Panasonic**)

Tenderfeet (see **Audiolab**)

Terk Technologies
63 Mall Dr.
Commack, NY 11725
800-942-8375
www.terk.com

Terpsichore
73 W. Main St.
Chester, NJ 07930
908-879-6889

Theta Digital
5330 Derry Ave., #R
Agoura Hills, CA 91301
818-597-9195
www.thetadigital.com

Thiel
1026 Nandino Blvd.
Lexington, KY 40511
606-254-9427
www.thielaudio.com

Thorens
84-03 Cuthbert Rd.
Kew Gardens, NY 11415
718-847-4289
www.audiolit.com/thorens

TIC
15224 E. Stafford St.
City of Industry, CA 91744-4418
800-779-6664

Tice Audio
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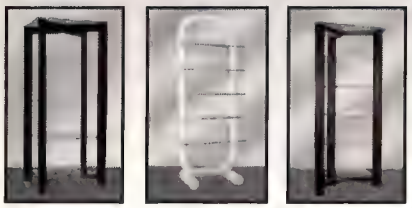

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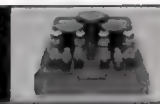

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Glossary

AC-3: A multichannel low-bit-rate digital audio perceptual-coding method developed by Dolby Labs and used in its 5.1-channel *Dolby Digital* surround-sound system for laserdisc, DVD, and digital TV.

acoustic-suspension: A *woofer*-loading technique that uses the air trapped inside a sealed speaker cabinet to provide a portion of the driver's restoring force. See *infinite-baffle*.

active crossover: An electronic component that divides the signal from a source component into frequency bands (low and high, for example) before the signal is amplified.

analog-to-digital (A/D) converter (or ADC): An electronic circuit that converts an analog electrical signal to a sequence of binary digital codes.

adjacent-channel selectivity (adj-ch sel): A measure of how well an FM tuner rejects signals from stations one channel up or down from the tuned *frequency;* higher figures are better.

AES/EBU interface: The professional standard for transmitting digital audio signals between components specified by the Audio Engineering Society (AES) and the European Broadcasting Union (EBU).

alternate-channel selectivity (alt-ch sel): A measure of how well an FM tuner rejects signals from stations two channels away from the tuned frequency; higher figures are better.

ambience: The acoustical character of a listening space, determined mainly by its size, shape, and reverberance. Some *digital signal processors* can synthesize ambience by generating artificial sound reflections.

ampere (A, amp): The primary measurement unit of electrical current.

amplifier: A separate component, or a section built into an integrated component, that strengthens the electrical signal (increases its amplitude). A power amplifier, which is designed to drive speakers, must be connected to a preamplifier (or "control amplifier") to switch and process the sound. An integrated amplifier combines power amplifier and preamplifier in the same unit.

amplitude modulation (AM): A technique in which the level, or amplitude, of a high-frequency *carrier* signal is varied according to the level of a much lower-frequency signal, so that the envelope of the carrier follows the *waveform* of the modulating signal. Commonly used to impress an audio or video signal onto an RF carrier.

AM rejection (AM rej): A measure of a tuner's ability to ignore changes in an FM signal's amplitude caused by *multipath* and other types of interference; higher figures are better.

analog: A type of component or recording medium that operates with signals whose *waveforms* are directly analogous to the sounds they represent; see *digital*.

AT&T ST connector: See *ST*.

ATRAC (Adaptive Transform Acoustic Coding): The low-bit-rate digital coding system used in the *MiniDisc* (MD) format; based on psychoacoustic modeling, it is designed to discard components of the audio signal that are below the threshold of audibility or masked by other signal components while retaining portions that are audible.

attenuate: To reduce or lower a signal's strength.

autoreverse: A feature of some cassette decks that enables them to play or record both sides of a cassette without its having to be turned over.

aux (auxiliary): An input on a receiver, integrated amplifier, or preamplifier that can be used to connect line-level source components.

A/V receiver: An audio component that performs four basic functions: receiving radio broadcasts, switching audio and video signals, processing audio signals (including surround-sound decoding), and amplifying audio signals to drive speakers.

A-weighted: A standard *equalization* curve applied in sound-level meters in order to make their readings conform more closely with perceived loudness, particularly at low levels, since human hearing is not equally sensitive at all levels and frequencies.

azimuth: The angle between the magnetic gap of a tape head and the direction of tape travel. Although theoretically set at 90 degrees, it often varies slightly from one tape deck to another. Any difference between recording and playback azimuth will result in a loss of treble response proportional to the error.

balance: A control found on most receivers, integrated amplifiers, and preamplifiers that changes the relative volume of the left and right channels.

balanced line: An interference-rejecting transmission technique in which the audio cable's shield is not part of the signal circuit.

band: A particular segment of a frequency spectrum. For example, a *graphic equalizer* may divide the audio spectrum into ten bands.

bandpass enclosure: A dual-chamber design for a *woofer* that creates sharp acoustical rolloffs above and below its operating range, minimizing or eliminating the need for a *crossover*.

bandpass filter: A circuit that removes signals above and below a certain frequency range.

ABBREVIATIONS

A: ampere
AC: alternating current
A/D: analog-to-digital
ADC: analog-to-digital converter
AFC: automatic frequency control
alt-ch: alternate-channel
A/V: audio/video
CAV: constant angular velocity
ch: channel
CIRC: cross-interleave Reed-Solomon code
CLV: constant linear velocity
cont: continuous
D/A: digital-to-analog
DAB: digital audio broadcasting
DAC: digital-to-analog converter
DAT: digital audio tape
dB: decibel
dBA: decibel, A-weighted
dBf: decibel re 1 femtowatt
dBFS: decibels referred to digital full-scale
DBS: direct broadcast satellite
DC: direct current
DSP: digital signal processing
DSS: Digital Satellite System
DTV: digital television
EIA: Electronic Industries Association
EIAJ: Electronic Industries Association of Japan
EQ: equalizer, equalization
f: femto (one quadrillionth)
F: farad, Fahrenheit
FET: field-effect transistor
FR: frequency response
g: gram
GUI: graphical user interface
HDCD: High Definition Compatible Digital
HDTV: high-definition television
HX: headroom extension
Hz: hertz, or cycles per second
IC: integrated circuit
IEC: International Electrotechnical Commission
IEEE: Institute of Electrical & Electronic Engineers
IF: intermediate frequency
IHF: Institute of High Fidelity
IM: intermodulation (distortion)
imp: impedance
k: kilo (one thousand)
kHz: kilohertz
LCD: liquid-crystal display
LED: light-emitting diode
LFE: low-frequency effects
L/R: left/right
LSB: least-significant bit
LSI: large-scale integrated circuit
m: meter or milli (one thousandth)
M: mega (one million)
mA: milliampere
MB: megabyte
Mb/sec: megabits per second
MC: moving-coil
MD: MiniDisc
MDF: medium-density fiberboard
mH: millihenry
MHz: megahertz
mic: microphone
mm: millimeter
MM: moving-magnet
mN: millinewtons
MOL: maximum output level
MOSFET: metal-oxide-semiconductor FET
MPX: multiplex
ms: millisecond
MSB: most-significant bit
MTS: multichannel television sound
mV: millivolt
mW: milliwatt
µ: micro (one millionth)
µs: microsecond
µV: microvolt
n: nano (one billionth)
NAB: National Association of Broadcasters
Ni-Cd: nickel-cadmium
Ni-MH: nickel metal-hydride
NR: noise reduction
nWb: nanoweber
OFC: oxygen-free copper
OFHC: oxygen-free high-conductivity copper
p: pico (one trillionth)
PCM: pulse-code modulation
PC-OCC: pure copper, continuous casting
pF: picofarad
PLL: phase-locked loop
poly: polypropylene
RDS: Radio Data System
re: referred to
RF: radio frequency
RIAA: Recording Industry Association of America
rms: root mean square
ROM: read-only memory
rpm: revolutions per minute
SCMS: Serial Copy Management System
s or sec: second
sel: selectivity
sens: sensitivity
sep: separation
SMPTE: Society of Motion Picture and Television Engineers
6N: 6 nines, or 99.9999% pure
S/N: signal-to-noise ratio
SPDIF: Sony/Philips Digital Interface
SPL: sound-pressure level
SPL/W/m: sound-pressure level with a 1-watt input measured at 1 meter
THD: total harmonic distortion
THD+N: THD plus noise
TIM: transient intermodulation (distortion)
V: volt
VA: volt-ampere
VU: volume unit
W: watt
W&F: wow-and-flutter
Wb: weber
W/ch: watts per channel
wrms: weighted root mean square
wtd: weighted

Glossary

bandwidth: The range of frequencies a component can reproduce.

bass: The lowest part of the audio spectrum, from 20 Hz to 150 or 200 Hz; see *treble* and *midrange*.

bass-reflex: A type of speaker enclosure in which the *woofer*'s backwave is used to augment low-frequency output through a tuned *port*.

Bessel filter: A type of *filter* with excellent phase characteristics but a very shallow rolloff slope.

biamping or biamplifying: The use of separate power amplifiers to feed the *woofer* and *midrange/tweeter* in a speaker. Also see *biwiring*.

bias: In analog tape recording, an ultrasonic tone applied during recording to reduce distortion. In amplifiers, a small current applied to a tube or transistor to reduce *crossover* distortion.

bipole: A type of speaker that radiates sound equally and in *phase* from its front and rear.

bipolar transistor: A commonly used type of semiconductor amplifying device.

bit: The basic unit of information in digital audio or video, corresponding to on or off, one or zero; a contraction of "binary digit."

biwiring: The use of separate wires between a power amplifier and the *woofer* and the *midrange/tweeter* in a speaker. Also see *biamping*.

BNC: A bayonet-type *coaxial* connector commonly used on laboratory instruments.

Butterworth filter: A type of *filter* known for its flat response in its *passband*.

cantilever: The small metal arm in a *phono cartridge* to which the *stylus* is attached.

capstan: A rotating shaft in a tape recorder that pulls the tape across the heads. The tape usually travels between the capstan and a pinch-roller. A dual-capstan machine has capstans at each end of the head block; see *closed-loop*.

capture ratio: A measure, in *decibels*, of an FM tuner's ability to reject all but the strongest signal on a tuned frequency; lower figures are better.

carrier: A high-frequency sine wave whose changes in amplitude, frequency, or *phase* are used to convey (carry) the information in a much lower-frequency signal or band of signals.

cartridge (phono cartridge): A small component mounted on the end of the *tonearm* on a *turntable*; it holds the *stylus*, which vibrates in a vinyl record groove. The cartridge converts the vibrations into an electrical voltage, or audio signal.

cassette deck: An analog tape recorder, or deck, that uses standard-size audio cassettes. Audio signals are recorded on or played back from the magnetic tape contained in the cassette.

CAV laserdisc: A type of laserdisc that spins at a constant angular velocity so that the laser pickup reads one video frame per revolution, allowing freeze-frame effects; also called standard-play.

CD (compact disc): A 4.8-in metalized plastic disc that stores up to 80 minutes of sound in 16-bit linear *PCM* digital format. The disc has microscopic pits and "lands" that are read by a laser pickup.

CD changer: A CD player that holds three or more discs loaded into a revolving "carousel" drawer or removable cartridge or "magazine," or 50 or more discs loaded into a jukebox-like mechanism.

CD-R (compact disc-recordable): A format that permits data to be written onto a blank CD but not erased from it.

CD-RW (compact disc-rewritable): A format that permits data to be written onto and erased from a compact disc.

CD Text: A standard for storing artist names, track titles, and the disc title on a CD; requires a CD Text-capable CD player to read and display.

center channel: A third channel used to complement the front left and right stereo channels in a *multichannel* audio/video or surround-sound system; its primary purpose is to stabilize the front stereo image for off-center listeners.

channel: A distinct path for an audio signal; stereo signals typically have two channels, left and right; *multichannel* systems such as *Dolby Pro Logic*, *Dolby Digital*, and *DTS* use additional channels for a center speaker in front and surround speakers at the sides or rear of the listening/viewing position.

channel separation: A measure of the amount of signal leakage between channels, expressed in *decibels*; higher figures are better.

Class A: An amplifier design in which the output devices conduct current at all times — this is inefficient, but it eliminates *crossover distortion*.

Class AB: A common amplifier configuration designed to minimize *crossover distortion* at low signal levels while maintaining higher operating efficiency than a Class A design.

Class B: A more efficient type of amplifier than Class A or AB in which no current flows through an output device when it is not carrying a signal; prone to *crossover distortion*.

clipping: Distortion that occurs when an electronic device cannot accommodate the maximum level requirements of the input signal, shearing off ("clipping") the *waveform* peaks.

closed-loop: A drive system used in tape decks in which the tape is pulled by dual *capstans*, one on either side of the *tape heads*, so that the part being played or recorded is held taut and fully isolated from the reel hubs.

CLV laserdisc: A type of laserdisc that spins faster near the center than at the rim so that the laser pickup reads information at a constant rate (constant linear velocity); also called extended play.

coaxial: A type of two-signal connector in which an inner conducting wire is surrounded by a cylindrical outer conductor; commonly used in video and digital audio connections. Also refers to a speaker configuration in which two *drivers* are combined so that their centers are in line and they radiate in *phase*.

coloration: A response anomaly that alters the perceived timbre of sound.

combi-player: A component that plays both CDs and laserdiscs.

continuous average (cont avg) power: The maximum undistorted power that an amplifier can deliver on a sustained basis. This specification is meaningful only when accompanied by the load *impedance* into which the power is delivered, the frequency range over which the rated power can be delivered, and the maximum distortion at the rated power.

crossover (crossover network): A circuit or component comprising *low-pass*, *high-pass*, or *band-pass filters* that separate lower-frequency signals from higher-frequency ones. A crossover is used in a speaker that has more than one *driver*. In a two-way speaker, the crossover sends the low frequencies to the *woofer* and the high frequencies to the *tweeter*. See *active* and *passive crossover*.

crossover (switching) distortion: A type of distortion that can occur in an amplifier when a signal is passed from one output device to another as it swings from positive to negative or vice versa.

crossover frequency (or point): In a *crossover network*, the frequency at which audio signals are divided so they can be routed to the appropriate *drivers* (low frequencies to a *woofer* and high frequencies to a *tweeter*, for example).

current: The flow of electrons through a conductor, expressed in amperes.

damping: The application of mechanical resistance, such as a rubber or silicone material, to the *cantilever* pivot of a *phono cartridge* or the suspension of a speaker diaphragm to reduce the amplitude of a *resonance*.

damping factor: The ratio of a speaker's *impedance* (assumed to be 8 ohms) to the output impedance of the amplifier driving it. In amplifier specifications, higher numbers are better.

dBf: One *decibel* referred to a standard power level of 1 femtowatt (one quadrillionth of a watt).

dBFS: *Decibels* referred to a 0-dB level of digital full-scale, the maximum signal level encodable by a digital audio system.

decibel (dB): A logarithmic unit expressing the ratio of two powers, currents, or voltages. An increase of 10 dB represents a tenfold increase in power (an increase of 20 dB represents a tenfold increase in voltage). Doubling the power raises *sound-pressure level (SPL)* by about 3 dB.

decorrelation: A process that scrambles the relative *phases* of the signals sent to the surround speakers in a *Dolby Pro Logic* home-theater system in order to increase the sense of surround-field envelopment; part of the Home *THX* standard.

de-emphasis: A form of *equalization* used in FM tuners that is complemetary to a pre-emphasis used in transmission. The purpose is to improve the overall *signal-to-noise ratio* (S/N) while maintaining uniform *frequency response*. Some CDs are also recorded with a high-frequency pre-emphasis; these discs automatically engage de-emphasis circuits in the player.

defeat: To bypass a signal processor, tone controls, or the like, removing it entirely from the circuit.

defect tracking: A measure of how well a CD player's laser pickup handles flaws on a disc.

demagnetizer: A device that removes accumulated magnetism from a tape recorder's *tape heads* and other metal parts in the tape path to prevent degradation of recordings.

digital: A digit is a number, and digital components use numbers in some way. A digital tuner, for example, may use numbers only on its front-panel display, or it may use digital *frequency-synthesis* tuning circuits. A CD carries a pattern representing a series of binary numbers (strings of ones and zeros); a CD player converts these numbers into a continuously changing voltage that represents the recorded music.

digital audio tape (DAT): A digital recording/playback format based on the *PCM* coding process used for compact discs. DAT cassettes are about half the size of standard audio cassettes.

digital filter: A circuit that alters a *waveform* by

arithmetic manipulation of its digital representation.

digital output: A *coaxial* or *fiber-optic* output found on some CD and DVD players and digital recorders that is used to pass digital signals to an outboard *digital-to-analog (D/A) converter*, digital recorder, or other component that has a digital input.

digital signal processing/processor (DSP): A general term for the manipulation of audio signals in the digital domain. DSP can be used for a wide variety of tasks, including *ambience* enhancement, *equalization*, filtering, and time-alignment. A digital signal processor can be either a component or a part of one.

digital-to-analog (D/A) converter (or DAC): An electronic circuit that converts a binary code (or digital "word") into an equivalent analog voltage.

dipole: A type of speaker that radiates sound equally from its front and rear but with opposite *phase* or *polarity* (see *bipole*). Alternatively, a type of antenna that receives radio signals primarily from the two directions broadside to it; a T-shaped, folded dipole antenna is often supplied with tuners and receivers.

dispersion: A characteristic of a speaker's radiation pattern, particularly at high frequencies; expressed in degrees or in terms of the rolloff of *frequency response* at various angles off the forward radiating axis relative to the on-axis response.

distortion: Broadly speaking, any unwanted alteration of a signal; usually, however, it refers to nonlinear distortion that adds unwanted signals to the output. See also *harmonic distortion*, *total harmonic distortion*, *noise*, and *intermodulation distortion*.

Dolby B, Dolby C, and Dolby S: *Noise-reduction (NR)* systems designed and licensed by Dolby Laboratories for use in analog consumer audio tape recorders. All are encode/decode systems that work by boosting high frequencies during recording and attenuating them by the same amount during playback. Dolby S is the most effective (and most expensive), followed by Dolby C and then Dolby B, which is the oldest and most common.

Dolby Digital: The Dolby Labs format for digital surround sound using 5.1 discrete channels (front left, center, and right, surround left and right, and *subwoofer*). Used in DVDs, some laserdiscs, and in the new digital TV system. Based on Dolby's *AC-3* digital coder.

Dolby HX Pro: A headroom-extension (HX) circuit for cassette decks that lowers the amount of bias added during recording when the signal being recorded contains a lot of high-frequency energy, enabling high frequencies to be recorded at higher levels with less distortion.

Dolby Pro Logic: An enhancement to *Dolby Surround* decoding that extracts the *center channel* and improves *channel separation* by means of logic-steering circuitry. See *logic*.

Dolby Surround: The consumer name for the Dolby Stereo system used for movie soundtracks. Dolby Surround encoding matrixes four channels — left, center, right, and surround — into two stereo channels that can be broadcast or carried on a CD, laserdisc, or hi-fi videocassette. Basic Dolby Surround decoding extracts the single surround channel to feed a pair of speakers at the sides or back of the room; such decoders have now largely been superseded by *Dolby Pro Logic* decoders.

double (or dubbing) cassette deck: A deck with two tape transports; usually only one side records.

driver: An individual *woofer*, *tweeter*, or other transducing element within a speaker.

DTS: A multichannel low-bit-rate digital audio coding method developed by Digital Theater Systems and used to carry a 5.1-channel soundtrack on CDs and laserdiscs.

dubbing: The process of copying a recording.

DVD — A multiuse optical-disc format that enables vast amounts of audio, video, or computer data to be encoded on a laser-read disc the size of a CD. DVD-Video discs of movies use the *Dolby Digital* format for 5.1-channel surround sound.

dynamic headroom: The amount by which an amplifier can exceed its rated continuous power in short bursts, expressed in *decibels* (dB).

dynamic range: The difference, in *decibels* (dB), between the highest and lowest levels in a sound or recording or between the overload level and the noise floor of a component or recording medium; higher figures are better.

dynamics: A subjective term used to describe the ability of a component to render loud and soft musical passages accurately.

early reflections: Sounds in any listening space that reach the ear shortly after direct sounds; see *late reflections* and *reverberation*.

efficiency: The percentage of electrical input power going to a speaker that is converted into acoustic energy; often used synonymously with the related concept of *sensitivity*.

electronic crossover: See *active crossover*.

electrostatic: Speakers and headphones that produce sound by moving a thin, electrically charged diaphragm suspended in a high-voltage electrical field.

enhanced CD: A format that adds one or more tracks of computer-readable text, graphics, or video to a music CD.

equalization (EQ): Deliberate alteration of *frequency response*. LPs, for instance, require a specific type of playback equalization (see *RIAA*).

equalizer: A component, or part of a component, that divides the audio signal into frequency bands with separately adjustable output levels. The most common type is the *graphic equalizer*; also see *parametric equalizer*.

error correction: Mathematical reconstruction of lost or corrupted digital data based on redundant coding in the recording or transmission. Error-corrected data is identical to the original data.

expander: A device that increases the *dynamic range* of incoming signals. An expander may be used to counteract the compression of dynamic range that sometimes occurs when recordings are made or when a signal is broadcast.

feedback: In electronics, the return of a small portion of the output signal to the input, in reversed *polarity*, to reduce distortion, reduce *gain*, or alter *frequency response*.

ferrofluid: The term for a ferromagnetic liquid used in some speaker *drivers*, especially *tweeters*, to conduct heat away from the *voice coil* and improve *damping* and power handling.

fiber-optic: A transmission medium in which signals are carried through a special plastic- or glass-fiber cable in the form of light; the primary benefit is immunity to electrical noise. See *Toslink*, *ST*.

field-effect transistor (FET): A semiconductor amplifying device that behaves more like a triode vacuum tube than like a bipolar transistor. In general, it is easier to get low distortion in FET-based circuits, but FETs are typically more expensive than bipolars and tend to have lower current capacity.

50-dB quieting sensitivity: A tuner specification that indicates the RF signal strength required for an incoming FM signal to produce a background noise level 50 dB below the audio output at full modulation; lower figures are better (tuner sensitivity is always worse in stereo than in mono).

filter: A circuit that boosts, *attenuates*, or removes selected frequencies from audio signals.

flat: Applied to *frequency response*, a condition in which a given input level produces an output level that is constant with frequency. Also, a setting (as of an *equalizer* or *tone control*) that results in no alteration of frequency response.

flutter: Rapid, usually small, pitch fluctuations that are caused by speed irregularities in a turntable or tape deck; expressed as a percentage of variation from the correct speed. Also see *wow-and-flutter*.

frequency: Rate of vibration or oscillation, measured in cycles per second, or *hertz* (Hz). The audio spectrum is generally taken to be 20 to 20,000 Hz (20 Hz to 20 kHz), which encompasses all the frequencies that humans can hear. In radio, frequency refers to the *carrier* signal of the station, such as 88.1 MHz for an FM station or 770 kHz for an AM station.

frequency modulation (FM): A technique in which the frequency of a high-frequency *carrier* is varied according to the level of a much lower-frequency signal. Commonly used to impress an audio signal onto a radio-frequency (RF) carrier.

frequency response: The range of frequencies (or bandwidth), expressed in *hertz* (Hz), that a component can sense or transmit, within specified limits of amplitude error, expressed in *decibels* (dB).

frequency synthesis: The process by which the various reference frequencies required by a tuner are derived by division of a single reference frequency, usually obtained from a stable crystal oscillator (see *phase-locked loop*). Frequency synthesis allows such tuner features as digital frequency readouts and station presets along with improved audio performance.

front end: The first stage of a tuner, responsible for tuning in and amplifying the desired radio or television signal.

gain: The amount by which an amplifier or antenna increases the strength of incoming signals, usually expressed in *decibels* (dB).

graphical user interface (GUI): Any "point-and-click" control system for an electronic component that uses menus and icons, which are displayed on a TV screen, instead of (or in addition to) physical pushbuttons and other controls.

graphic equalizer: An *equalizer* with control bands that are fixed in frequency; the slider controls for the various bands provide a rough graphic representation of the selected *frequency-response* curve.

ground: In an electrical circuit, the reference for 0 volts, above and below which other signals may vary.

harmonic distortion: Spurious output signals at whole-number multiples of the frequency of the input signal; see *distortion* and *total harmonic distortion (THD)*.

headroom: The difference between the highest level present in the input signal at any moment and the maximum level an audio device can handle without distortion; expressed in *decibels* (dB).

Glossary

hertz (Hz): The standard unit of frequency, representing cycles per second, or changes away from a basic state and back again. In audio, the basic state is defined as either ordinary air pressure (without sound) or its electrical equivalent (a constant-level DC signal, often 0 volts, or *ground*). The higher the figure in hertz, the higher the sound's pitch. A kilohertz (kHz) is a thousand hertz, a megahertz (MHz) a million hertz.

high-pass filter: A circuit, as in a speaker's *crossover network*, that progressively *attenuates* signals below its cutoff frequency, passing those above unaltered; see *filter* and *low-pass filter.*

home-theater system: A collection of audio and video components designed and configured to reproduce the picture and sound that would be experienced from a movie in a good theater. A home theater is generally expected to include a TV screen of reasonable size and a surround-sound audio system. See also *Dolby Digital, Dolby Surround,* and *Dolby Pro Logic.*

HX Pro: See *Dolby HX Pro.*

IF rejection: A measurement of a tuner's ability to reject external interference at the *intermediate frequency*; higher figures are better.

imaging: The ability of an audio system to reproduce sounds in a spatially realistic manner.

image rejection: A measure of a tuner's ability to reject the sum or difference frequency of its own intermediate and oscillator frequencies; poor suppression results in reception at false frequencies. Higher figures are better.

impedance (imp): The total resistance of a component or circuit to the flow of alternating current (AC), expressed in *ohms.* In addition to pure resistance, it may include reactive (capacitive or inductive) elements that cause its value to vary with frequency. See *reactance* and *resistance.*

infinite-baffle: A speaker enclosure that is sealed in order to isolate the speaker's front radiation from the back radiation of its *drivers. Acoustic-suspension* is a special type of infinite-baffle design.

infrasonic filter: A type of *high-pass filter* used to *attenuate* inaudible frequencies below about 20 Hz; often called a "subsonic" filter.

integrated amplifier: A component that combines the functions of a preamplifier and power amplifier.

integrated circuit (IC): A miniature one-piece electronic device containing many transistors and other electronic components; it is the basic building block of most modern electronics.

intermediate frequency (IF): In a tuner, the frequency to which the *front end* converts any tuned *carrier* for demodulation, 10.7 MHz for FM or 455 kHz for AM.

intermodulation (IM) distortion: A type of distortion whose components are at frequencies that are sums and differences of the input frequencies; lower figures are better.

I²S: Inter-IC Sound, a type of digital audio data format used to transmit signals between integrated circuits.

jack: A female connector that serves as a receptacle for a male connector; see *RCA connector.*

Kapton: A plastic material widely used in the manufacture of speaker voice-coil formers.

laser: A device that generates a coherent, monochromatic beam of light; the word originated as an acronym for "light amplification by stimulated emission of radiation."

laserdisc: A laser-read videodisc. Laserdisc players usually play CDs as well; see *CAV* and *CLV.*

late reflections: Echoes in an enclosed space that reach the ear after multiple reflections and, consequently, have a relatively long delay time; see *early reflections* and *reverberation.*

light-emitting diode (LED): A small light used as an indicator on many components.

limiter: A circuit that prevents a signal from exceeding a certain amplitude.

linearity: Describes the accuracy with which a component's output signal tracks the input signal; a device whose output varies in direct proportion to the input is said to be linear.

line-level: Signal voltages in the range delivered from the outputs of most audio source components (such as CD players) and preamplifiers; also known as low-level or preamp-level. See *speaker-level.*

liquid-crystal display (LCD): A type of electronic readout used on the faceplates of some components and remote controls.

logic: In cassette decks, the ability to switch from one transport function, such as fast-forward, to another, such as rewind, without pressing the stop button; doing this in decks without logic controls can damage the tape. In a surround-sound system, analog logic-steering circuits are used to improve separation between multiple channels derived from *matrix*-encoded stereo signals.

loudness compensation: A form of *equalization* that progressively emphasizes low frequencies (and sometimes high frequencies) as volume is reduced. Loudness-compensation circuits are designed to offset the ear's loss of low-frequency sensitivity as the sound level decreases; they can be switchable (on/off), adjustable, or automatic.

low-pass filter: A circuit, as in a speaker's *crossover network*, that progressively *attenuates* signals above its cutoff frequency, passing those below unaltered; see *filter* and *high-pass filter.*

magazine: The removable module in a *CD changer* into which five, six, or ten discs are loaded; often called a "cartridge."

magnetic cartridge: A *phono* pickup that generates its electrical output by electromagnetic induction. Almost all hi-fi phono cartridges are magnetic.

matrix: A type of circuit commonly used in surround-sound encoders and decoders to squeeze three or more channels of information into two or to extract multiple channels from an encoded stereo signal. Also used to describe similar circuits that can synthesize an *ambience* channel from a nonencoded stereo recording. The term "matrix" derives from the mathematics involved.

megabyte (MB): 1,048,576 bytes; a measure of digital information-storage capacity.

microphone: An electroacoustic pickup device that converts acoustical energy — such as live music or voice — into an electrical signal.

midbass: The segment of the audio frequency spectrum covering sounds produced in the upper-bass and lower-midrange region.

midrange: The segment of the audio frequency spectrum between the bass and treble, which includes most of the fundamental tones of the voice and of most musical instruments, from approximately 150 or 200 Hz to somewhere between 500 Hz and 1 kHz. In audio, the midrange is often taken to include frequencies up to several kilohertz.

midrange driver: A speaker *driver* that is designed to reproduce frequencies from 200 Hz or so up to 2 or 3 kHz.

MiniDisc (MD): An optical record/playback format based on a low-bit-rate coding process called Adaptive Transform Acoustic Coding (ATRAC); up to 74 minutes of audio information is stored on and retrieved from a 2½-inch optical disc housed in a computer-disk-like caddy. MD is not physically compatible in any way with the CD format.

mono (monaural or monophonic): An audio *signal* in which all the information is in one channel. In a component, it indicates that only one channel is handled, as in a mono power amplifier or a *center-channel* speaker.

MOSFET (metal-oxide-semiconductor field-effect transistor): A type of *field-effect transistor* sometimes used in audio equipment.

moving-coil (MC) cartridge: A magnetic phono cartridge, typically of very low output, in which the magnet is fixed and the coils are attached to the *stylus cantilever.*

moving-magnet (MM) cartridge: A magnetic phono cartridge in which the coils are fixed and the magnet is attached to the *stylus cantilever.*

MTS (multichannel television sound): The encode/decode system devised by Zenith and dbx for stereo TV broadcasting in the U.S. An MTS decoder may be built into an audio or video component; also see *SAP.*

muddy: A subjective term describing sound, usually in the bass region, that isn't clear.

multichannel: An audio system or component that utilizes more amplifier/speaker channels than the standard left/right (front) stereo pair. See *home-theater system, Dolby Digital, Dolby Surround, Dolby Pro Logic, DTS.*

multipath: When a broadcast radio or TV signal reaches the receiving antenna over two or more paths of differing lengths. The resulting interference causes distortion on FM and "ghosts" on TV.

multiplex (MPX): Two or more channels transmitted on a single *carrier* so that they can be independently recovered by the receiver. Usually, as in TV and stereo FM, this is achieved by means of subcarriers, signals on the main carrier that are modulated by other signals. Some tape decks have an MPX filter that removes the 19-kHz pilot tone from stereo FM broadcasts.

multiroom system: A system that directs music or video programs from one or more sources to secondary listening spaces, or *zones.*

negative feedback: See *feedback.*

noise: Any unwanted signals that are not strongly correlated with the desired signal. Hiss and hum are typical examples of noise.

noise reduction (NR): A system designed to reduce the noise added to an audio signal during recording or transmission; see *Dolby B, Dolby C,* and *Dolby S.*

ohm (Ω): The basic unit of electrical *resistance*; also see *impedance.*

omnidirectional: Equally sensitive or effective in all directions. Might be said of an antenna, a microphone, or a loudspeaker.

1-bit D/A converter: A converter that translates the 16-bit PCM (*pulse-code modulation*) signal from a CD into an analog waveform using a digital delta-

modulator followed by a PDM (*pulse-density modulation*) or PWM (*pulse-width modulation*) output converter.

optical (fiber-optic) output/input: A special type of *jack* that accepts *fiber-optic* cable.

output level: A measure of how strong the output signal of a component is, usually in relation to the strength of the input signal.

output transformer: A transformer used to couple the output stage of a power amplifier to a speaker. Output transformers are usually essential in tube amps but are almost never used in transistor amps.

oversampling: In a *digital-to-analog (D/A) converter*, a technique whereby multiple "samples" are mathematically generated from each real sample. That permits the use of digital *filters* to augment a simple, shallow analog output filter, instead of the complex and very steep analog output filter that would otherwise be required.

parametric equalizer: An *equalizer* that has variable parameters — such as frequency, level, and filter sharpness (or *Q*) — typically to accentuate or reduce its action on selected frequency bands.

passband: The range, or band, of frequencies that a *filter* lets pass through; see *crossover*.

passive crossover: A network comprising some combination of capacitors, inductors (coils), and resistors that divides the audio signal into frequency bands (low, high, and possibly *midrange*) after it is amplified; see *active crossover*.

passive radiator: In a speaker, an undriven cone ("drone cone") that substitutes for the mass of the air in the *port* of a *bass-reflex* enclosure, allowing greater flexibility in tuning the enclosure.

PCM: See *pulse-code modulation*.

peak indicator: Usually a flashing LED on a tape recorder that indicates when transient signal levels have exceeded the recorder's ability to handle them without distortion; a supplement to *recording-level meters*.

peak-reading meter: A *recording-level meter* that rises rapidly and declines more slowly so that the user can judge the levels of transient peaks.

phase: An expression of periodicity vs. time for a periodic *waveform* (such as a sine wave), often used to describe a signal's time-domain characteristics.

phono: Abbreviation for "phonograph"; refers to the low-level signals produced by a phono *cartridge* and to the phono input where a turntable is connected to a preamplifier, integrated amplifier, or receiver. Phono inputs use *RCA connectors*, sometimes called phono *jacks*.

phono cartridge: See *cartridge*.

piezoelectric: A kind of speaker *driver* (usually a *tweeter*) that employs a ceramic element that expands or bends when fed a signal voltage, generating sound.

pink noise: Random noise that has equal energy in each octave; used as a test signal.

phase-locked loop (PLL): A type of circuit used in tuners to lock the received frequency to a synthesized reference frequency, usually generated by a quartz oscillator; see *frequency synthesis*.

polarity: An electrical convention that describes one side of a circuit connection as positive and the other as negative. Reversing, or inverting, the polarity of an audio connection is equivalent to a signal phase change of 180 degrees, or one-half cycle; see *reverse polarity*.

port: An opening in the cabinet of a *bass-reflex* speaker that enables the sound wave from the back of a *woofer* to reinforce the sound wave from the front; also called a vent.

power amplifier: A component, or part of a component, that strengthens the audio *signal* from a preamplifier so that it can drive speakers.

preamplifier: A component, or part of a component, that switches and processes signals from source components. Typically, preamplifiers amplify only the low-level signals from phono *cartridges*, raising them to the same level as signals from other audio source components (called "*line-level*") and applying the necessary *RIAA equalization*.

pre-emphasis: Boosting of a range of frequencies, usually with the expectation that reciprocal *equalization* (*de-emphasis*) will be applied later to restore flat response. The usual purpose is for *noise reduction*.

preset: A memory position on a component that is either preprogrammed or programmed by the user. Tuner presets enable the frequencies of radio stations to be stored for instant recall, for example.

programming: The process of entering instructions for a component to carry out at a later time. For instance, many CD players can be programmed to play selected tracks in any order.

pulse-code modulation (PCM): Representation of an analog signal by a sequence of multidigit binary numbers. PCM is the most common digital encoding scheme and is the one used for CDs.

pulse-density modulation (PDM): A signal-generation method used in the outputs of some 1-bit *digital-to-analog converters*, in which all of the signal pulses are of the same amplitude and duration but are either positive or negative; the output must be low-pass-filtered to recover the analog *waveform*.

pulse-width modulation (PWM): A signal-generation method, used in the outputs of some 1-bit *digital-to-analog converters*, in which all of the signal pulses are of the same amplitude but of varying duration, or width; the output must be low-pass filtered to recover the analog *waveform*.

Q: In an *equalizer*, Q is a number that specifies the width of the frequency band relative to its level; the higher the number the narrower the band, or range of affected frequencies. In speakers, Q usually refers to the sharpness of the low-frequency *resonance* and is inversely proportional to *damping*.

quantization: In digital audio, the representation of a continuous analog signal by a sequence of discrete numbers. In *PCM*, the *dynamic range* of the system is determined by the number of possible values available to represent various levels of signal amplitude, which is in turn determined by the number of bits used to represent each sample. In the CD format, the resolution of the quantization is 16 bits, which means that each sample can have any whole-number value between 0 and 65,535.

quartz synthesis: See *frequency synthesis*, *PLL*.

radio frequency (RF): The high-frequency electromagnetic signals used to broadcast radio and TV programs, or any very high-frequency signal, whether broadcast or not.

random access: The ability to go directly to the beginning of a song, track, or program without having to scan the intervening material; the process is usually initiated using numbered buttons on a component's front panel or remote control.

RCA connector/jack: The most common kind of audio connector, using a small, one-pin plug and a coaxial shield; also called a *phono* plug or jack because it originated in phono equipment.

RDS (Radio Data System): A system for transmitting text information along with the audio in a radio broadcast, for display on an RDS-equipped tuner or receiver.

reactance: The portion of the electrical *impedance* in an AC circuit that is not due to *resistance*. Capacitive reactance causes impedance to rise as the signal frequency decreases, whereas inductive reactance causes impedance to rise as the signal frequency increases.

receiver: An audio component that receives radio broadcasts, switches and processes audio signals, and amplifies the selected signal to drive speakers; also see *A/V receiver*.

recording-level meter: An indicator on a tape deck that displays the signal levels being recorded from moment to moment.

resistance: An electrical *impedance* that is the same for all frequencies; it is the only type of impedance for direct-current (DC) circuits.

resonance: The tendency of a mechanical or electrical system to vibrate at a certain frequency when excited by an external force, and to keep vibrating even after the exciting force is removed. Resonances are undesirable in audio equipment because they "color" the reproduced sound.

reverberation: A dense pattern of reflected sound that results when sound is created in an enclosed space. The more reflective the walls and surfaces of the listening space, the louder and longer lasting the reverb. The perceived effect of reverberation depends on the size of the room and how long it persists; it influences both the clarity (or intelligibility) of the sound and the feeling of spaciousness or *ambience*.

reverse polarity: An electrical condition in which the positive and negative wires running to one speaker in a stereo pair are reversed relative to the other; this causes the sound wave emanating from the speakers to be out of *phase* with one another, which weakens bass output by cancellation and can impair stereo *imaging*.

RIAA: Recording Industry Association of America; decades ago, the RIAA set standards for the *equalization* used on phonograph records to minimize noise and prevent overcutting. The reduced bass and boosted treble of vinyl records must be compensated for during playback by a phono preamplifier.

ribbon speaker: A form of speaker *driver* using a light, conductive ribbon suspended in a magnetic field; it produces sound by vibrating when a signal current is passed through it.

rms (root mean square): The most common, and accurate, way of averaging power measurements.

rolloff: A gradual reduction in the level of a signal above or below a certain frequency.

rumble: Low-frequency noise caused by imperfections in the drive mechanism of a turntable.

sampling frequency (or rate): In digital audio, the number of times a signal is sampled each second. The standard sampling rate for the CD format is 44.1 kHz, which means each second of sound is encoded by 44,100 16-bit numbers for each channel. The sampling rate must be at least twice the highest frequency to be recorded.

SAP (second audio program): A separate mono channel broadcast along with the two stereo chan-

nels in the *MTS* system for stereo TV. The SAP channel can be used for various purposes, such as an alternative soundtrack in a different language.

saturation: A condition that occurs when an audio tape becomes fully magnetized and an increase in signal input level does not produce a corresponding increase in recorded level. Saturation also can occur in the magnetic structure of the *tape heads.*

scan: A tuner feature used to audition radio stations. On CD players, scan buttons can be used to move through a track.

Serial Copy Management System (SCMS): Incorporated in all consumer digital recorders to limit digital-to-digital copying of copyright material to a single generation. Any number of first-generation digital copies can be made from an original, but the resulting copies cannot themselves be copied via a direct digital link.

search: On CD components, search buttons (identified by arrow symbols) are used to move quickly from track to track. On some tape decks, fast-forward and rewind buttons can be used to automatically fast-forward or rewind to the next or previous track; also known as "music" or "program" search.

sensitivity: A speaker measurement that tells how much sound (expressed as *sound-pressure level*, or *SPL*, in *decibels*) is produced at a specified distance (usually 1 meter) from the speaker when it is fed a specified input signal (usually 2.83 volts, which will produce 1 watt into 8 ohms). A speaker that is 3 dB more sensitive than another requires only half the amplifier power to deliver the same SPL.

servo: Short for servomechanism, a control system that uses an output signal as feedback, comparing it to a reference signal; the difference between the two is used to correct the output.

signal: An electrical current or voltage whose variations represent audio or video information.

signal processor: A component that manipulates line-level audio signals; *equalizers* and surround-sound processors are the most common varieties.

signal-to-noise ratio (S/N): Measured in *decibels* (dB), the difference in level between a signal (usually a standard level) and the residual noise of the component through which it is passed; higher figures are better.

slew rate: The rate at which a signal changes amplitude, or the maximum rate at which an amplifier can change the amplitude of its output; usually expressed in volts per microsecond.

slope: The rate at which a *filter* or *crossover* attenuates out-of-band frequencies, in decibels per octave. Typical slopes are 6, 12, 18, and 24 dB per octave, which are also referred to as first- through fourth-order filters, respectively; the higher the number, the sharper the attenuation.

solid-state: Electronic circuits whose active elements are *transistors* and *integrated circuits.*

sound field: A listening environment; see *ambience.*

soundstage: The virtual performing space created by an audio system; also the real space where movie soundtracks are recorded. See *imaging.*

source: The signal that is played through a stereo system. CD players, tuners, and tape decks are the most common audio source components.

Sony/Philips Digital Interface (SPDIF): The standard format for exchanging digital audio signals between consumer audio components. Connections can be *coaxial* or *optical.*

sound-pressure level (SPL): A measure of acoustic energy, usually encountered in speaker *sensitivity* ratings; expressed in *decibels.*

speaker (or **loudspeaker):** A component that accepts audio signals from a receiver or amplifier and converts them into sound waves. Also see *driver.*

speaker-level: Audio signals that have been sufficiently amplified to drive a speaker; see *line-level.*

specification (spec): A manufacturer's numerical rating of a performance characteristic, such as *frequency response* or *distortion.*

ST (AT&T ST): A *fiber-optic* digital connector that uses glass fibers rather than plastic; see *Toslink.*

stereo: The use of at least two audio channels, left and right, to provide spatial realism; see *imaging.*

stylus: Needle-shaped material, usually diamond, at the end of the *cantilever* of a phono *cartridge*; its vibration as it traces vinyl record grooves is translated by the cartridge into an electrical audio signal.

subsonic filter: See *infrasonic filter.*

subwoofer: A separate speaker designed to reproduce only low-bass frequencies. Powered subwoofers contain an amplifier and an electronic *crossover.*

supertweeter: A *tweeter* used to reproduce only extremely high frequencies.

surround sound: See *Dolby Digital, Dolby Surround, Dolby Pro Logic,* and *THX.*

tape deck, tape recorder: A component that stores an audio signal on a magnetic tape; see *cassette decks, digital audio tape (DAT).*

tape heads: The parts of a tape recorder that impose a magnetic pattern on a tape (for recording) or detect one that is already there (for playback). Most recorders have a separate head for erasing tapes by randomizing the magnetic pattern.

tape monitor: A switch on a tape recorder or preamplifier that enables the user to listen to a tape as it is being recorded to insure proper recording levels; on a preamplifier or receiver, it may also be used to connect an external *signal processor.*

THD+N: The sum of all distortion and noise, expressed as a percentage of the output signal; lower is better; see *total harmonic distortion.*

THX: A certification for home-theater audio systems and components that adhere to standards and specifications developed by Lucasfilm and can reproduce *Dolby Surround* and *Dolby Digital* movie soundtracks with very high accuracy.

tonearm: A device attached to a *turntable* that carries a phono *cartridge*; tonearms can be either pivoted or radial-tracking.

tone controls: A kind of rudimentary *equalizer* included in most receivers, and in some preamplifiers and integrated amplifiers, that allows changing the relative balance between preset frequency bands, usually *bass* and *treble*, sometimes also *midrange.*

transient intermodulation (TIM) distortion: A type of distortion that can occur in a *feedback* amplifier when the *slew rate* of a signal approaches or exceeds the amplifier's maximum slew rate.

Toslink: The most common *fiber-optic* connector for digital audio inputs and outputs; uses plastic fibers.

total harmonic distortion (THD): The percentage of an audio output signal that consists of spurious harmonics, or multiples, of the input frequencies introduced by an amplifier or other component through which the signal passes; lower figures are better.

tracking: The ability of a CD player or phono *cartridge* to follow the pattern recorded on a disc.

transient: A sharp peak in the audio *signal* caused by the attack of musical instruments, especially percussion instruments.

transistor: The basic amplifying element used in most audio components; see *solid-state, bipolar transistor, field-effect transistor (FET),* and *MOSFET.*

transport: The parts of a tape deck that move the tape, including the motor(s), reel hubs, capstan(s), and other mechanisms. In a CD player or turntable, the transport system rotates the disc.

treble: The upper part of the audio spectrum, from 2 or 3 kHz to 20 kHz; see *bass* and *midrange.*

tuner: A component, or part of a component, that receives radio signals from an antenna, allows the user to select a station, and demodulates an audio signal from the broadcast RF signal.

turntable: A component that turns an analog phonograph record at a constant speed so that the recorded signal can be read by a phono *cartridge,* carried by a *tonearm,* that tracks a physical groove.

tweeter: A speaker *driver* designed to reproduce *treble* frequencies.

two-way, three-way: Refers to the number of frequency bands a speaker's output is divided into. A two-way speaker has a *woofer* and a *tweeter*; a three-way speaker adds a *midrange driver.*

usable sensitivity: A tuner spec that indicates the minimum level of an incoming mono signal required to produce a satisfactory output signal, one with no more than 3 percent noise and distortion; lower figures are better. Much less useful than the more stringent *50-dB quieting sensitivity* spec.

vent: See *port.*

voice coil: In a dynamic speaker, each *driver* cone or dome is moved by a voice coil, an attached cylinder wound with wire that is immersed in the field of a permanent magnet. Current through the wire from the amplifier creates an opposing magnetic field, and the voice coil moves in or out according to the direction and strength of the input signal.

voltage: The amount of work, in volts (V), required to move electrical current from one point to another.

watt (W): The primary unit of electrical power, equal to voltage times current.

waveform: A graphical representation of an audio signal as the curve that results when the instantaneous voltage (vertical axis) is plotted across time (horizontal axis); the positive-going portion of a waveform moves upward and the negative-going portion downward.

watts per channel (W/ch): A specification of how much power an amplifier or receiver can deliver to each speaker connected to it.

wow-and-flutter (W&F): A specification indicating the speed variation of mechanical components such as turntables and tape decks. Wow consists of slow variations, *flutter* of fast ones; low figures are better.

woofer: A speaker *driver* designed to reproduce *bass* or bass/*midrange* frequencies.

XLR: A three-conductor *balanced-line* connector.

zone: A listening area in a multiroom audio system.

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Glossary

hertz (Hz): The standard unit of frequency, representing cycles per second, or changes away from a basic state and back again. In audio, the basic state is defined as either ordinary air pressure (without sound) or its electrical equivalent (a constant-level DC signal, often 0 volts, or *ground*). The higher the figure in hertz, the higher the sound's pitch. A kilohertz (kHz) is a thousand hertz, a megahertz (MHz) a million hertz.

high-pass filter: A circuit, as in a speaker's *crossover network*, that progressively *attenuates* signals below its cutoff frequency, passing those above unaltered; see *filter* and *low-pass filter*.

home-theater system: A collection of audio and video components designed and configured to reproduce the picture and sound that would be experienced from a movie in a good theater. A home theater is generally expected to include a TV screen of reasonable size and a surround-sound audio system. See also *Dolby Digital*, *Dolby Surround*, and *Dolby Pro Logic*.

HX Pro: See *Dolby HX Pro*.

IF rejection: A measurement of a tuner's ability to reject external interference at the *intermediate frequency*; higher figures are better.

imaging: The ability of an audio system to reproduce sounds in a spatially realistic manner.

image rejection: A measure of a tuner's ability to reject the sum or difference frequency of its own intermediate and oscillator frequencies; poor suppression results in reception at false frequencies. Higher figures are better.

impedance (imp): The total resistance of a component or circuit to the flow of alternating current (AC), expressed in *ohms*. In addition to pure resistance, it may include reactive (capacitive or inductive) elements that cause its value to vary with frequency. See *reactance* and *resistance*.

infinite-baffle: A speaker enclosure that is sealed in order to isolate the speaker's front radiation from the back radiation of its *drivers*. *Acoustic-suspension* is a special type of infinite-baffle design.

infrasonic filter: A type of *high-pass filter* used to *attenuate* inaudible frequencies below about 20 Hz; often called a "subsonic" filter.

integrated amplifier: A component that combines the functions of a preamplifier and power amplifier.

integrated circuit (IC): A miniature one-piece electronic device containing many transistors and other electronic components; it is the basic building block of most modern electronics.

intermediate frequency (IF): In a tuner, the frequency to which the *front end* converts any tuned *carrier* for demodulation, 10.7 MHz for FM or 455 kHz for AM.

intermodulation (IM) distortion: A type of distortion whose components are at frequencies that are sums and differences of the input frequencies; lower figures are better.

I²S: Inter-IC Sound, a type of digital audio data format used to transmit signals between integrated circuits.

jack: A female connector that serves as a receptacle for a male connector; see *RCA connector*.

Kapton: A plastic material widely used in the manufacture of speaker voice-coil formers.

laser: A device that generates a coherent, monochromatic beam of light; the word originated as an acronym for "light amplification by stimulated emission of radiation."

laserdisc: A laser-read videodisc. Laserdisc players usually play CDs as well; see *CAV* and *CLV*.

late reflections: Echoes in an enclosed space that reach the ear after multiple reflections and, consequently, have a relatively long delay time; see *early reflections* and *reverberation*.

light-emitting diode (LED): A small light used as an indicator on many components.

limiter: A circuit that prevents a signal from exceeding a certain amplitude.

linearity: Describes the accuracy with which a component's output signal tracks the input signal; a device whose output varies in direct proportion to the input is said to be linear.

line-level: Signal voltages in the range delivered from the outputs of most audio source components (such as CD players) and preamplifiers; also known as low-level or preamp-level. See *speaker-level*.

liquid-crystal display (LCD): A type of electronic readout used on the faceplates of some components and remote controls.

logic: In cassette decks, the ability to switch from one transport function, such as fast-forward, to another, such as rewind, without pressing the stop button; doing this in decks without logic controls can damage the tape. In a surround-sound system, analog logic-steering circuits are used to improve separation between multiple channels derived from *matrix*-encoded stereo signals.

loudness compensation: A form of *equalization* that progressively emphasizes low frequencies (and sometimes high frequencies) as volume is reduced. Loudness-compensation circuits are designed to offset the ear's loss of low-frequency sensitivity as the sound level decreases; they can be switchable (on/off), adjustable, or automatic.

low-pass filter: A circuit, as in a speaker's *crossover network*, that progressively *attenuates* signals above its cutoff frequency, passing those below unaltered; see *filter* and *high-pass filter*.

magazine: The removable module in a *CD changer* into which five, six, or ten discs are loaded; often called a "cartridge."

magnetic cartridge: A *phono* pickup that generates its electrical output by electromagnetic induction. Almost all hi-fi phono cartridges are magnetic.

matrix: A type of circuit commonly used in surround-sound encoders and decoders to squeeze three or more channels of information into two or to extract multiple channels from an encoded stereo signal. Also used to describe similar circuits that can synthesize an *ambience* channel from a nonencoded stereo recording. The term "matrix" derives from the mathematics involved.

megabyte (MB): 1,048,576 bytes; a measure of digital information-storage capacity.

microphone: An electroacoustic pickup device that converts acoustical energy — such as live music or voice — into an electrical signal.

midbass: The segment of the audio frequency spectrum covering sounds produced in the upper-bass and lower-midrange region.

midrange: The segment of the audio frequency spectrum between the bass and treble, which includes most of the fundamental tones of the voice and of most musical instruments, from approximately 150 or 200 Hz to somewhere between 500 Hz and 1 kHz. In audio, the midrange is often taken to include frequencies up to several kilohertz.

midrange driver: A speaker *driver* that is designed to reproduce frequencies from 200 Hz or so up to 2 or 3 kHz.

MiniDisc (MD): An optical record/playback format based on a low-bit-rate coding process called Adaptive Transform Acoustic Coding (ATRAC); up to 74 minutes of audio information is stored on and retrieved from a 2½-inch optical disc housed in a computer-disk-like caddy. MD is not physically compatible in any way with the CD format.

mono (monaural or monophonic): An audio *signal* in which all the information is in one channel. In a component, it indicates that only one channel is handled, as in a mono power amplifier or a *center-channel* speaker.

MOSFET (metal-oxide-semiconductor field-effect transistor): A type of *field-effect transistor* sometimes used in audio equipment.

moving-coil (MC) cartridge: A magnetic phono cartridge, typically of very low output, in which the magnet is fixed and the coils are attached to the *stylus cantilever*.

moving-magnet (MM) cartridge: A magnetic phono cartridge in which the coils are fixed and the magnet is attached to the *stylus cantilever*.

MTS (multichannel television sound): The encode/decode system devised by Zenith and dbx for stereo TV broadcasting in the U.S. An MTS decoder may be built into an audio or video component; also see *SAP*.

muddy: A subjective term describing sound, usually in the bass region, that isn't clear.

multichannel: An audio system or component that utilizes more amplifier/speaker channels than the standard left/right (front) stereo pair. See *home-theater system*, *Dolby Digital*, *Dolby Surround*, *Dolby Pro Logic*, *DTS*.

multipath: When a broadcast radio or TV signal reaches the receiving antenna over two or more paths of differing lengths. The resulting interference causes distortion on FM and "ghosts" on TV.

multiplex (MPX): Two or more channels transmitted on a single *carrier* so that they can be independently recovered by the receiver. Usually, as in TV and stereo FM, this is achieved by means of subcarriers, signals on the main carrier that are modulated by other signals. Some tape decks have an MPX filter that removes the 19-kHz pilot tone from stereo FM broadcasts.

multiroom system: A system that directs music or video programs from one or more sources to secondary listening spaces, or *zones*.

negative feedback: See *feedback*.

noise: Any unwanted signals that are not strongly correlated with the desired signal. Hiss and hum are typical examples of noise.

noise reduction (NR): A system designed to reduce the noise added to an audio signal during recording or transmission; see *Dolby B*, *Dolby C*, and *Dolby S*.

ohm (Ω): The basic unit of electrical *resistance*; also see *impedance*.

omnidirectional: Equally sensitive or effective in all directions. Might be said of an antenna, a microphone, or a loudspeaker.

1-bit D/A converter: A converter that translates the 16-bit PCM (*pulse-code modulation*) signal from a CD into an analog waveform using a digital delta-